



# STATE OF LOUISIANA

## Competitive Contract

Vendor: 310005230  
Company  
GILCHRIST CONSTRUCTION COMPANY LLC  
5709 NEW YORK AVE  
ALEXANDRIA LA 71302  
Phone : 318-448-3565  
Fax : 318-427-1190

T Number:  
Version: 1  
LAPS Contract: No  
Fiscal Year: 2015  
Min.Ord.Value: 0.00  
Distributor Contract: No  
PCard:No  
Co-op Agreement:Yes

Contract number: 4400006021  
Description: DOTD Asphaltic Mixture F/Hot Application

### Buyer Information

Name: TIFFANY LAMBERT  
Tel Number: 225-379-1410  
Email: tiffany.lambert@la.gov

SEBD Vendor: No  
SEHI Vendor: No  
VSE Vendor: No  
DVSE Vendor: No  
Contract Valid Dates:  
03/01/2015 - 08/31/2015

**Supplier Text:** Delivery ARO: 10 Days

This is not an order. This contract is for a period of six (6) months beginning March 1, 2015 through August 31, 2015 to furnish Asphaltic Mixture for Hot Application. The contract has been awarded to you based on the bid you submitted. All terms, conditions and specifications of the solicitation will apply to all orders.

Material will be ordered on an as needed basis. An official Purchase Order will be issued for actual quantities needed prior to pick-up by Department. No quantities are guaranteed. The Department reserves the right to increase or decrease quantities at the same prices, terms and conditions for the period of the contract.

Please note, quantity is designated as "1" to show price per ton.

Aggregates must be from an approved source listed on Qualified Products List No. 2. Polymer Modified Asphalt PAC 40HG and PAC 30 must be from an approved source listed on Approved Materials: Asphaltic Materials (Previously QPL No. 41).

Subject to laboratory test before final acceptance.

The Department of Transportation and Development reserves the right to cancel any or all item(s) on this contract with thirty (30) days written notice.

Recommending Approval:

*Tiffany Lambert*

Approved by:

*Charles H. Garrison*

Contract number: 4400006021 T Number:	Vendor: 310005230 Distributor Contract: NO	Page 2 of 4
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**PAYMENT:**

In an effort to increase efficiencies and effectiveness as well as be strategic in utilizing technology and resources, DOTD strongly encourages vendors to participate in accepting Electronic Funds Transfer (EFT) payments.

EFT payments are sent from the State's bank directly to the payee's bank each weekday. The only requirement is that you have an active checking or savings account at a financial institution that can accept Automated Clearing House (ACH) credit files and remittance information electronically. Additional information is available at <http://www.doa.louisiana.gov/OSRAP/EFTforWebsite.pdf>.

**Notice to Vendor:**

Line	Material No. Supplier Part No.	Description	Prod. Cat.	UOM	Net Price	Discount
1	11505	ASPHALTIC MIXTURE,F/HOT APPL,REGULAR  DOTD SPEC MS 164-002, 2/97  PLANT LOCATION: Alexandria, LA PLANT CERTIFICATION CODE: H832	30121500	TON	58.94000	
2	11505	ASPHALTIC MIXTURE,F/HOT APPL,REGULAR  DOTD SPEC MS 164-002, 2/97  PLANT LOCATION: Walker, LA PLANT CERTIFICATION CODE: H142	30121500	TON	69.00000	
8	11506	ASPHALTIC MIXTURE,F/HOT APPL,PAC30  POLYMER MODIFIED, DOTD SPEC MS 164-004, 11/95  PLANT LOCATION: Alexandria, LA PLANT CERTIFICATION CODE: H832	30121500	TON	63.54000	
9	11506	ASPHALTIC MIXTURE,F/HOT APPL,PAC30  POLYMER MODIFIED, DOTD SPEC MS 164-004, 11/95  PLANT LOCATION: Walker, LA PLANT CERTIFICATION CODE: H142	30121500	TON	74.00000	

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Line	Material No. ----- Supplier Part No.	Description	Prod. Cat.	UOM	Net Price	Discount
15	11507	ASPHALTIC MIXTURE,F/HOT APPL,PAC40HG  POLYMER MODIFIED, DOTD SPEC MS 164-004, 11/95  PLANT LOCATION: Alexandria, LA PLANT CERTIFICATION CODE: H832	30121500	TON	68.14000	
16	11507	ASPHALTIC MIXTURE,F/HOT APPL,PAC40HG  POLYMER MODIFIED, DOTD SPEC MS 164-004, 11/95  PLANT LOCATION: Walker, LA PLANT CERTIFICATION CODE: H142	30121500	TON	78.00000	

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### Standard Terms and Conditions

1. THIS IS NOT AN ORDER TO SHIP (OR BEGIN SERVICE). A CONTRACT RELEASE OR PURCHASE ORDER MUST BE ISSUED BEFORE YOU ARE AUTHORIZED TO SHIP (OR BEGIN SERVICE).
2. THIS IS NOTICE THAT THE CONTRACT REFERENCED ABOVE HAS BEEN AWARDED TO YOU BASED ON THE BID (OR PROPOSAL) SUBMITTED. ALL TERMS, CONDITIONS, AND SPECIFICATIONS OF THE SOLICITATION WILL APPLY TO ALL ORDERS.
3. ANY AGENCY AUTHORIZED TO PURCHASE FROM THIS CONTRACT MUST ISSUE AN ORDER AND REFERENCE THE CONTRACT NUMBER, LINE NUMBER AND COMMODITY ITEM NUMBER FOR EACH ITEM.
4. CHANGES IN ITEMS TO BE FURNISHED ARE NOT PERMITTED (UNLESS APPROVED BY THE ISSUING AGENCY PRIOR TO DELIVERY). PRIOR APPROVAL MUST ALSO BE OBTAINED BEFORE DISTRIBUTORS CAN BE ADDED OR DELETED.
5. IF A DISTRIBUTOR LIST WAS SUBMITTED, CONTRACTOR MUST SEND COPIES OF THIS AWARD TO EACH DISTRIBUTOR.
6. QUANTITIES LISTED ARE ESTIMATED AND NO QUANTITIES ARE GUARANTEED (UNLESS "COMMITTED VOLUME" IS SPECIFICALLY STATED). CONTRACTOR MUST SUPPLY ACTUAL REQUIREMENTS ORDERED AT THE CONTRACT PRICE AWARDED.
7. COMPLIANCE WITH CIVIL RIGHTS LAWS.

THE CONTRACTOR AGREES TO ABIDE BY THE REQUIREMENTS OF THE FOLLOWING AS APPLICABLE: TITLE IV AND TITLE VII OF THE CIVIL RIGHTS ACT OF 1964, AS AMENDED BY THE EQUAL OPPORTUNITY ACT OF 1972, FEDERAL EXECUTIVE ORDER 11246, THE FEDERAL REHABILITATION ACT OF 1973, AS AMENDED, THE VIETNAM ERA VETERAN'S READJUSTMENT ASSISTANCE ACT OF 1974, TITLE IX OF THE EDUCATION AMENDMENTS OF 1972, THE AGE ACT OF 1975, AND CONTRACTOR AGREES TO ABIDE BY THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT OF 1990. CONTRACTOR AGREES TO NOT TO DISCRIMINATE IN ITS EMPLOYMENT PRACTICES, AND WILL RENDER SERVICES UNDER THIS AGREEMENT AND ANY CONTRACT ENTERED INTO AS A RESULT OF THIS AGREEMENT, WITHOUT REGARD TO RACE, COLOR, RELIGION, SEX, NATIONAL ORIGIN, VETERAN STATUS, POLITICAL AFFILIATION, OR DISABILITIES. ANY ACT OF DISCRIMINATION COMMITTED BY CONTRACTOR OR FAILURE TO COMPLY WITH THESE STATUTORY OBLIGATIONS WHEN APPLICABLE SHALL BE GROUNDS FOR TERMINATION OF THIS AGREEMENT AND ANY CONTRACT ENTERED INTO AS A RESULT OF THIS AGREEMENT.

**STATE OF LOUISIANA  
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT  
SPECIAL CONDITIONS AND SPECIFICATIONS  
FOR FURNISHING  
ASPHALTIC MIXTURE FOR HOT APPLICATION**

Please read the following instructions and special conditions and specifications carefully. Any deviation may cause your bid to be disqualified.

**CONTRACT**

The purpose and intention of this invitation to bid is to comply with State laws and establish a contract between the Department and the successful bidder(s), whereby the Department may purchase Asphaltic Mixture for Hot Application from the contractor as shown herein.

**PURPOSE AND INTENTION**

The purpose and intention of this invitation to bid is to comply with State laws and establish a contract between the Department and the successful bidder(s), whereby the Department may purchase Asphaltic Mixture for Hot Application from the contractor as shown herein.

**CONTRACT PROPOSAL FORM**

The contract form in its entirety shall become a part of the contract upon execution by the Department. Bidder shall fill in this form completely and shall sign in the appropriate places and return to the Procurement Section of the Department of Transportation and Development before the time set for receiving contracts on the front hereof. Bidders are advised that bids mailed through the U.S. Postal Service to our post office box are received at the Baton Rouge Main Post Office and are picked up by the Division of Administration and then routed to the Department of Transportation and Development; therefore, extra delivery time is needed in order for bids to be received and time-stamped in our office before the bid deadline.

Bids may be mailed through the U.S. Postal Service to our box at:

DOTD Procurement Section  
Headquarters Administration  
4<sup>th</sup> Floor East Wing S-447  
P. O. Box 94245  
Baton Rouge, LA 70804-9245

Bids may be delivered by hand or courier service to our physical location as follows:

DOTD Procurement Section  
Headquarters Administration

4<sup>th</sup> Floor East Wing S-447  
1201 Capitol Access Road  
Baton Rouge, LA 70802

Bidders are solely responsible for ensuring that its courier service provider makes inside deliveries to our physical location. The DOTD Procurement Office is not responsible for any delays caused by the bidder's chosen means of delivery. Bidder is solely responsible for the timely delivery of its bid. Failure to meet the bid opening date and time shall result in rejection of the bid. **Note: The time set for receiving proposals is Central Standard Time (CST).**

### **SCOPE OF WORK**

Scope of work includes labor, materials, and services required to produce Asphaltic Mixture for Hot Application which is acceptable to the Department of Transportation and Development.

### **QUANTITIES**

No specific quantities are given or guaranteed, only such Asphaltic Mixture for Hot Application as required by the Department of Transportation and Development during the contract period will be ordered.

The successful bidder must supply at bid price quantities as ordered whether the total of such quantities are more or less than the quantities shown in the Bid Schedule.

Both regular and polymer modified asphaltic mixture will be available for use by the Department. It will be at each District Administrator's option of which product to purchase.

### **SPECIFICATIONS**

All Asphaltic Mixture for Hot Application must be in accordance with DOTD Specification No. MS 164-002, Dated February, 1997 and Polymer Modified Asphaltic Materials, DOTD Specification No. MS 164-004, Dated November, 1995. Materials failing to meet the specifications will be paid according to the price adjustment schedule shown. If performance of the materials continues to be unsatisfactory, the Department reserves the right to cancel the contract.

### **PRE-QUALIFICATION REQUIREMENTS**

Bidder's plant for supplying Asphaltic Mixture for Hot Application must be certified prior to award. After the award of the contract, it will be the responsibility of each District to make sure the bidder's plant is still certified before material is picked up at various plant locations throughout the life of the contract.

## **STANDARDS OF QUALITY**

Any product or service bid shall conform to all applicable Federal and State laws and regulations and the specifications contained herein.

## **GUARANTEE AND LIABILITY**

The contractor accepts the following guarantees:

- (1) Guarantee that the supplies delivered are free from defects in design and construction.
- (2) Guarantee that the supplies are the manufacturer's standard design in construction and that no changes or substitutions have been made in the items listed in this contract.

The contractor holds and saves the State, its officers, agents, and employees harmless from liability of any kind, including cost and expenses on account of any patented or unpatented invention, articles, devices or appliances manufactured or used in the performance of this contract, including use by the government.

The contractor agrees to replace free of charge all defective equipment, materials or supplies delivered under this contract. All transportation charges covering return and replacement shall be paid by the contractor.

## **PRICES**

All prices quoted shall be in the unit of measure as shown on the Bid Schedule and shall remain firm for the contractual period. Unit price bid must not exceed two digits to right of decimal point. Unit price submitted beyond two digits will be rounded off to the nearest second digit.

Prices quoted shall include all costs incidental to any license or patent that may be held by any company processing the materials bid on and the dealer agrees to hold the Department of Transportation and Development harmless from any claims, suites, costs, or penalties for infringement or use of licensed or patented products.

## **BID OPENING**

Bids will be publicly opened and read but no information or opinions concerning the ultimate contract award will be given at the bid opening or during the evaluation process. Bids may be examined 72 hours after bid opening. Information pertaining to completed files may be secured by visiting the Department of Transportation and Development during normal working hours.

## **BASIS OF AWARD**

The contract for furnishing Asphaltic Mixture for Hot Application herein specified for the period indicated shall be awarded to the bidder(s) offering Asphaltic Mixture for Hot Application at plants which have been certified by the Department prior to award and complying to all details of this contract proposal as determined by the DOTD Procurement Director. It will be up to the District Administrator to select a certified plant closest to the jobsite based upon the unit price bid and the current mileage factor. Mileage will be computed on the basis of \$0.15 per mile for the first 41 miles, then \$0.75 per mile thereafter.

Aggregates must be from an approved source listed on Qualified Products List No. 2. A copy of Qualified Products List No. 2 is attached for your reference.

Polymer Modified Asphalt PAC-40HG and PAC 30 must be from an approved source listed on Approved Materials List: Asphaltic Materials, formerly Qualified Products List 41. A copy of Approved Materials List: Asphaltic Materials is attached for your reference.

Plants which are established and certified during the life of the contract may be considered for supplemental award based on factors which are advantageous to the Department of Transportation and Development. The decision will be based on the best interest of the Department as determined by the DOTD Procurement Director. Awards will not be made if plant is within a radius of ten (10) road miles of a plant location which was awarded at the original contract award.

Discounts will not be considered in determining low bidder.

## **MATERIAL AVAILABILITY**

The successful bidder will be required to have on hand or immediately available an adequate supply of Asphaltic Mixture for Hot Application in order to meet the Department's requirements, as ordered, where ordered, during the life of the contract.

Contractors must be in a position to furnish Asphaltic Mixture for Hot Application as requested by District Administrator.

It will be the responsibility of the contractor to give the District Administrator a forty-eight (48) hour notice as to when the plant will be out of operation and/or in the event that the plant is shut down permanently.

## **PURCHASE ORDERS**

Purchase orders will be issued by the Department of Transportation and Development. Each Purchase Order will state an actual or estimated quantity that is required and all other pertinent data necessary to assist the contractor to make proper delivery. In no event shall delivery be made without proper authorization.



## **INVOICES**

Upon delivery and its acceptance by the Department, the contractor shall bill the Department by means of an invoice and such invoice shall make reference to the Purchase Order Number on which delivery was made.

At the time of delivery, the contractor is to make a delivery receipt on his own form showing complete description, the exact quantity delivered, price and extension. Such delivery ticket must make reference to the Purchase Order Number.

Invoices shall be submitted by the contractor directly to the address shown on the Purchase Order.

Invoice price must agree with contract price.

## **PAYMENTS**

Invoices will be paid by the Department within the discount period or within thirty calendar days from receipt of correct invoice. If contractor proposes a discount, discount period will start from receipt of correct invoice.

## **SAMPLING AND ACCEPTANCE**

All Asphaltic Mixture for Hot Application shall be sampled and accepted in accordance with the standard method of sampling asphaltic materials as outlined in the Department's Sampling Manual.

## **TAXES**

The contractor is responsible for including all applicable taxes in the bid price.

State Agencies are exempt from all State and Local Sales and Use Taxes.

## **REJECTION OF BIDS**

The Department of Transportation and Development reserves the right to reject any and all bids and/or waive any informalities.

## **TERMINATION OF CONTRACT**

The Department reserves the right to terminate this contract prior to the end of the contract period upon giving a ten (10) day written notice to the contractor for unsatisfactory performance, unsatisfactory delivery, unsatisfactory service, failure to meet specifications, misrepresentation by the contractor, fraud, collusion, conspiracy or other unlawful means of obtaining any contract with the State, conflict of contract provisions with constitutional or statutory provisions of State or Federal Law, and/or any breach of contract.

The Department reserves the right to terminate this contract prior to the end of the contract period upon giving thirty (30) day written notice to the contractor if it is considered in the best interest of the Department.

Successful contractor may request cancellation of this contract upon giving thirty (30) day written notice to the DOTD Procurement Director.

All orders delivered prior to the effective date of such termination shall be paid for by the Department in accordance with the terms of the contract, whereupon all obligations of both parties to the contract shall cease.

In the event contract contains a provision entitled "Guarantees" such guarantees shall apply to all items delivered prior to termination.

#### **DEFAULT OF CONTRACTOR**

Failure to deliver within the time specified in the bid will constitute a default and may cause cancellation of the contract. Where the State has determined the contractor to be in default, the Department of Transportation and Development reserves the right to purchase any or all products or services covered by this contract on the open market and charge the contractor with cost in excess of the contract price. Until such assessed charges have been paid, no subsequent bid from the defaulting contractor will be considered.

#### **SIGNATURE OF BIDDER**

To be considered for an award, all bidders shall fill in the contract proposal completely and shall sign in the appropriate places. Contract proposal form should be returned in its entirety. Acceptance shall be made when signed by the DOTD Procurement Director and copy returned to the contractor.

#### **APPLICABLE LAW**

All contracts shall be construed in accordance with and governed by the Laws of the State of Louisiana, including but not limited to DOTD Purchasing Rules & Regulations, Special Instructions & Conditions and specifications listed in this proposal.

#### **BIDDERS CERTIFICATION OF EEOC AND ADA COMPLIANCE**

The Department of Transportation and Development and the State of Louisiana is an equal opportunity employer and looks to its contractors, subcontractors, vendors and suppliers to take affirmative action to affect this commitment in its operations.

By submitting and signing this bid, bidder certifies that he agrees to abide by the requirements of the following as applicable: Title VI and VII of the Civil Rights Act of 1964, as amended by the Equal Opportunity Act of 1972, Federal Executive Order 11246, Federal Rehabilitation Act of 1973, as amended, the Vietnam ERA Veteran's Readjustment Assistance Act of 1974, Title IX of the Education Amendments of 1972, The Age Act of

1975, and bidder agrees to abide by the requirements of the Americans with Disabilities Act of 1990.

Bidder agrees not to discriminate in its employment practices and will render services under any contract entered into as a result of this solicitation without regard to race, color, religion, sex, sexual orientation, national origin, veteran status, political affiliation, or disabilities. Any act of discrimination committed by bidder, or failure to comply with these statutory obligations when applicable shall be grounds for termination of any contract entered into as a result of this proposal.

Bidder agrees to keep informed of and comply with all Federal, State and local laws, ordinances and regulations which affect his employees or prospective employees.

### **SPECIAL ACCOMODATIONS**

Any person who is "qualified" individual with a disability as defined by the Americans with Disabilities Act who has submitted a bid on this procurement and who desires to attend the bid opening, must notify this office in writing no later than seven (7) days prior to the bid opening date of their need for special accommodations. If the requested accommodations cannot be reasonably provided, the individual will be so informed prior to the bid opening date.

### **INDEMNITY**

Contractor agrees, upon receipt of written notice of a claim or action, to defend the claim or action, or take other appropriate measures, to indemnify, and hold harmless, the State, its officers, its agents and its employees from and against all claims and actions for bodily injury, death or property damages caused by the fault of the contractor, its officers, its agents or its employees. Contractor is obligated to indemnify only to the extent of the fault of the contractor, its officers, its agents, or employees.

However, the contractor shall have no obligations as set forth above with respect to any claim or action from bodily injury, death or property damages arising out of the fault of the State, its officers, its agents or its employees.

### **SIGNATURE AUTHORITY**

In accordance with Louisiana Revised Statute 39:1594 (Act 121), the person signing this bid must be:

1. A current corporate officer, partnership member or other individual specifically authorized to submit a bid as reflected in the appropriate records on file with the Secretary of State, or
2. An individual authorized to bind the vendor as reflected by an accompanying corporate resolution, certificate or affidavit, or
3. An individual listed on the State of Louisiana bidder's application as authorized to execute bids.

By signing the bid, the bidder certifies compliance with the above.

By signing the bid, the bidder further certifies compliance with all Instructions to Bidders, terms, conditions and specifications and further certifies that this bid is made without collusion or fraud.

For good cause and as consideration for executing this contract, the contractor hereby conveys, sells, assigns and transfers to the State of Louisiana all rights, title and interest in and to all causes of action it may now or hereafter acquire under the Antitrust Laws of the United States and the State of Louisiana, relating to the particular goods or services purchased or acquired by the State of Louisiana pursuant to the Department of Transportation and Development.

## COOPERATIVE PURCHASE AGREEMENT

State Agencies, Political Subdivisions of the State and Quasi State Agencies may be permitted to purchase from contracts made by the Department of Transportation and Development's Procurement Section.

The Bidder may, at his option, accept this Cooperative Purchase Agreement so that any contract awarded under this proposal will apply to other State Agencies, Political Subdivisions or Quasi Agencies.

Bidder hereby accepts this Cooperative Purchase Agreement so that any contract awarded will apply to other State Agencies, Quasi State Agencies or other Political Subdivisions of the State.

\_\_\_\_\_ Yes, I agree to accept Cooperative Purchase Agreement

\_\_\_\_\_ No, I do not accept Cooperative Purchase Agreement

Failure to mark "no" on the above will constitute acceptance of this Cooperative Purchase Agreement to other State Agencies, Political Subdivisions of the State and Quasi State Agencies.

Choosing not to accept this Cooperative Purchase Agreement will have no bearing on the award of the contract.

**ORDERS:** Other State Agencies are to issue contract release orders/purchase orders for the items required, as and when needed.

Political subdivisions of the State and Quasi Agencies who have been authorized by the Office of State Procurement to purchase from contracts made by the Department of Transportation and Development are to issue their regular purchase orders directly to the Contractor, making reference to the Contract Number, Item Number (if applicable) and Contract Expiration Date.

**CONTRACT ADMINISTRATION:** The Department of Transportation and Development will not monitor, administer or resolve any discrepancies, controversies, invoicing or payments related to this contract on orders placed by other State Agencies, Political Subdivisions or Quasi Agencies.

Controversies between the Department of Transportation and Development and a Contractor will be resolved by the DOTD Procurement Director.

Controversies between other State Agencies and a Contractor will be resolved by the Director of State Procurement in accordance with R.S. 39:1673.

It will be the responsibility of the ordering entity to correspond directly with the Contractor.

**DELIVERY:** Vendors accepting the Cooperative Purchase Agreement understand and agree that deliveries to other State Agencies, Political Subdivisions or Quasi Agencies will be on a statewide basis.

**LOUISIANA  
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT  
SPECIFICATIONS**

**ASPHALTIC MIXTURES FOR HOT APPLICATION**

**DESCRIPTION:**

The material shall consist of a mixture of aggregates and asphalt with additives.

Type 1M (Hard Rock) - Mix shall consist of one of the following combinations: crushed gravel, crushed stone, crushed slag, or a combination of these materials; sand; mineral filler; and asphalt with additives.

Type 6M (Sand) – Mix shall consist of crushed gravel, stone or slag; sand; mineral filler; and asphalt with additives.

**COMPOSITION AND PROPORTIONING:**

Aggregates and asphaltic material shall be combined in such proportions that the mixtures shall meet the following requirements:

<u>Type 1M</u>	<u>% By Weight</u>
Aggregates	93.0 – 95.0
Asphalt	5.0 – 7.0

<u>Type 6M</u>	<u>% By Weight</u>
Aggregates	91.0 – 94.0
Asphalt	6.0 – 9.0

**MATERIALS:**

Test methods shall be latest in effect.

(a) Aggregates: All aggregates, except fine sand, shall be from an approved source on Qualified Products List No. 2. Crushed aggregate shall have a minimum of 70% crushed faces as determined in accordance with DOTD TR 306.

Aggregates shall conform to the following gradation when tested in accordance with DOTD TR-113.

U. S. Sieve	% Passing By Wt.	
	Type 1M	Type 6M
1 Inch	100	---
3/4 Inch	98 – 100	---
1/2 Inch	90 – 100	---
3/8 Inch	70 – 100	100
No. 4	50 – 75	85 – 100
No. 10	32 – 55	50 – 75
No. 40	16 – 33	24 – 40
No. 80	10 – 20	16 – 28
No. 200	6 – 12	8 – 18

Any approved DOTD wearing course mixture that does not contain PAC-30 or PAC-40HG polymer modified asphalt cements may be substituted for Type 1M mix.

(b) Asphalt: Asphaltic material shall be Grade AC 30 asphalt cement from a source listed on Qualified Products List No. 41, and conforming to Table 1, except as provided elsewhere herein.

(c) Additives: Anti-stripping additive shall be an approved product on Qualified Products List No. 57 added at approximately 0.5% by weight of asphalt cement.

#### **RECYCLED MIX:**

At the producer's option, reclaimed asphaltic concrete may be used in the mixtures. Mixtures containing reclaimed asphaltic concrete will be subject to the requirements specified herein with the following modifications.

All asphaltic concrete mixtures (except final wearing course mixtures for travel lanes) may contain a maximum of 30% reclaimed asphaltic concrete; this includes mixtures for base course, binder course, and wearing course for shoulders and temporary detour roads. The final wearing course mixture for travel lanes, with or without friction course, may contain a maximum of 15% reclaimed asphaltic concrete; however, such reclaimed material shall contain no expanded clay aggregate.

Reclaimed material shall be stockpiled separately from other materials at the plant and will be subject to approval prior to use. Such stockpiles shall be uniform and free of soil, debris, foreign matter and other contaminants. Reclaimed materials that cannot be readily broken down in the mixing process or that adversely affect paving operations shall be crushed to pass a 2" sieve prior to use.

Mixing shall be performed in either a batch plant or a dryer-drum plant; however, the plant shall be modified as required to permit recycling operations in conformance with air pollution standards. A separate cold feed system, including weight indicating apparatus, shall be provided for recycled material.

The quantity of reclaimed asphaltic concrete used shall be at the contractor's option and shall be designated in the job mix formula. If mixtures contain less than 20% reclaimed materials, Grade AC-30 asphalt cement shall be used. Grade AC-10 asphalt cement shall be used in mixtures containing from 20 to 30% reclaimed materials. The mixture produced shall conform to requirements for the type mixture specified. The Department reserves the right to require the contractor to reduce the percentage of reclaimed asphaltic concrete such that control and acceptance criteria are consistently maintained.

New aggregates shall be dried and heated to a sufficiently high temperature to produce a mixture with a discharge temperature of at least 280° F.

#### **PREPARATION AND PROCESSING OF MIXTURES:**

Preparation and processing of mixtures shall be in accordance with Sections 501 and 503 of the Standard Specifications. Plants supplying asphaltic mixtures must be certified by the District Laboratory.

#### **MEASUREMENT AND PAYMENT:**

Asphaltic concrete will be measured and paid for by the ton of 2,000 pounds from printed weights as provided in Section 503.

If asphaltic material does not conform to specifications, the final test results will be applied to the appropriate schedule of Table 1 and any adjustment in unit price will be made as specified. If the test results are such that a penalty would result from more than one test value, only the price adjustment for the greatest reduction will apply.

#### **SAMPLING:**

Sampling shall be in accordance with the Materials Sampling Manual.



**TABLE 1**  
**ASPHALT CEMENT, MODIFIED AASHTO GRADES AC-10 AND AC-30**

Test Method		Percent of Contract Unit Price/Ton Of Asphaltic Concrete					
		AC-10 <sup>1</sup>			AC-30 <sup>1</sup>		
		<u>Specifications</u> 100	<u>Deviations</u> 95      90 or Reject <sup>2</sup>		<u>Specifications</u> 100	<u>Deviations</u> 95      90 or Reject <sup>2</sup>	
Penetration, 25°C (77°F), 100 g, 5 sec.	AASHTO T-49	85+ <sup>3</sup>		79-	55+ <sup>4</sup>		49-
Viscosity, 135°C (275°F), SSF <sup>5</sup>	ASTM E-102	125+			175+		
Viscosity, 135°C (275°F), cSt	AASHTO T-201	250+	200-249	199-	350+	300-349	299-
Viscosity, 60°C (140°F), Poises	AASHTO T-202	1000±200		799- 1201+	3000±600		2399- 3601+
Solubility in Trichloroethylene, %	AASHTO T-44	99.0+			99.0+		
Flash Point, COC, °C (°F)	AASHTO T-48	218(425)		217(424)-	232(450)+		231(449)-
Tests on Residue from Thin Film Oven Test:							
Viscosity, 60°C (140°F), Poises	AASHTO T-202	4000-		4001+	12000-		12000+
Ductility, 25°C (77°F), 5 cm/min.	AASHTO T-51	100+	70-99	69-	100+	70-99	69-
Thin Film Oven Test, % loss @ 325°F, 5 hr	AASHTO T-179	0.50-		0.51+	0.50-		0.51+
Spot Test (Standard Naphtha Solvent)	AASHTO T-102	Neg		Pos	Neg		Pos

<sup>1</sup> All values are inclusive.

<sup>2</sup> At the option of the Department.

<sup>3</sup> For samples obtained at point of delivery, the penetration requirement shall be 80+.

<sup>4</sup> For samples obtained at point of delivery, the penetration requirement shall be 50+.

<sup>5</sup> For samples obtained at point of delivery, the viscosity @ 275° F may be determined using ASTM E 102.

SAP Material Master No. 11506  
(Stock Number 24-05-5125)  
SAP Material Master No. 11507  
(Stock Number 24-05-5130)

MS Spec. 164-004  
Dated November 1995  
7 Pages

**LOUISIANA  
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT  
SPECIFICATIONS**

**POLYMER MODIFIED ASPHALTIC MATERIALS**

**DESCRIPTION:**

These specifications cover polymer modified asphaltic materials for road maintenance.

**GENERAL REQUIREMENTS:**

Polymer modified asphalt shall be prepared by the refining of petroleum. It shall be uniform in character, free from water, and shall not foam when heated to 350°. Asphalt shall be from an approved source on Qualified Products List No. 41.

Storage tanks, piping, retorts, booster tanks, distributors and other equipment used in delivering, storing or handling asphaltic materials shall be kept clean and in good operating condition and shall be operated in such manner as to avoid contamination of the contents with foreign materials.

Test methods shall be the latest in effect in addition to the ones included in this specification. Final test results for polymer modified asphaltic materials will be applied to the proper table herein for conformance to specifications. Any deviation from the specifications will result in a payment adjustment as specified. If test results are such that a price adjustment would result from more than 1 test value, the payment adjustment for the greatest reduction shall apply.

The adjustment in pay for polymer modified asphaltic materials shall be applied only to samples taken at the point of delivery. Samples taken at the refinery shall conform to specification requirements; if the refinery sample fails to meet these requirements, the material will be rejected and shall not be shipped.

**SAMPLING:**

Sampling will be in accordance with the Materials Sampling Manual.

**TABLE 1**  
**POLYMER MODIFIED ASPHALT CEMENTS<sup>1</sup>**

PROPERTY  APPLICABLE TO ASPHALTIC CONCRETE	AASHTO TEST METHOD	PAC-40HG			PAC-30		
		Specification	Deviation		Specification	Deviation	
		100	95	90 or Remove	100	95	90 or Remove
Penetration @ 25° C, 100 g., 5 sec.	T 49	50-75 <sup>7</sup>	---	44- 81+	50+ <sup>8</sup>	---	44-
Viscosity <sup>2</sup> , @ 60° C, Poise	T 202 <sup>9</sup>	4,000+	---	3,400-	3,000+	---	2,400-
Viscosity @ 135° C, cSt	T 201 <sup>9</sup>	2,000-	2,001-2,050	2,051+	2,000-	2,001- 2,050	2,051+
Flash Point, ° C	T 48	232+	---	230-	232+	---	230-
Solubility <sup>3</sup> , %	T 44	99.0+	---	---	99.0+	---	---
Separation of Polymer <sup>4</sup> 163° C, 48 hours difference in R & B from top to bottom sample, ° F	---	4-	---	---	4-	---	---
Force Ductility <sup>5</sup> (f <sub>2</sub> /f <sub>1</sub> , 4° C, 5 cm/min., 30 cm elongation)	---	0.30+	---	0.29-	---	---	---
Force Ductility <sup>5</sup> , 4° C, 5 cm/min., 30 cm elongation, lb	---	---	---	---	0.50+	---	0.49-
Test for Residue from Thin Film Oven Test Penetration Retention, %	T 49	50+	---	49-	50+	---	49-
Elastic Recovery <sup>6</sup> , 25° C, 10 cm elongation, %	---	60+	---	59-	40+	---	39-

- <sup>1</sup> The following specifications shall define either Polymer Modified Asphalt Cement materials preblended or the sampled base asphalt cement plus additive combined at the plant site.
- <sup>2</sup> The absolute viscosity shall be run in a Modified Koppers vacuum capillary viscometer. Report the viscosity at a shear rate of 1 reciprocal second.
- <sup>3</sup> Not all polymers are soluble in the specified solvents. If the polymer modified asphalt digested in the solvent will not pass the filter media, a sample of the base asphalt used in making the polymer modified asphalt should be tested for solubility. If the solubility of the base asphalt is at least 99.0%, the material shall be considered as passing.
- <sup>4</sup> Separation of Polymer Test - See following test method. To be used for preblended modified asphalt cement materials or batched and stored materials. This test will be for informational purposes only.
- <sup>5</sup> For Force Ductility Test, see following test method for PAC-40HG. For PAC-30, the Force Ductility test shall conform to ASTM P-226-92.
- <sup>6</sup> For Elastic Recovery Test - See the following test method.
- <sup>7</sup> For samples obtained at the point of delivery, the penetration requirement shall be 45-80.
- <sup>8</sup> For samples obtained at the point of delivery, the penetration requirement shall be 45+.
- <sup>9</sup> ASTM D 4957 may be used to determine viscosity.

**TABLE 2**  
**ANIONIC EMULSIFIED POLYMER MODIFIED ASPHALT**

PROPERTY	TEST METHOD	SS-1P		
		SPECIFICATION	DEVIATION	
		100	80	50 or Remove
Viscosity, Saybolt 25° C, SSF	AASHTO T 59	20-100	10-19 101-150	9- 151+
Storage Stability, 24 Hour, %	AASHTO T 59	1.0-	---	---
Sieve Test, retained on the No. 20, %	AASHTO T 59	0.1-	---	---
Residue by Distillation <sup>1</sup> , 250° C	ASTM D 244	57+	---	56-
<b>TESTS ON RESIDUE FROM DISTILLATION TEST:</b>				
Penetration, 25° C, 100g, 5s	AASHTO T 49	100-200	88-99 201-212	87- 213+
Solubility, %	AASHTO T 44	97.5+	---	---
Force Ductility <sup>2</sup> f <sub>2</sub> /f <sub>1</sub> , 4° C, 5 cm/min	---	0.15+	---	0.14-
Elastic Recovery <sup>3</sup> , 10° C, 20 cm elongation 60 min, %	---	30+	---	29-

<sup>1</sup> ASTM D 244 Residue by Distillation is modified to include a maximum of 204° C to be held for a period of 15 minutes.

<sup>2</sup> For Force Ductility test see the following test method.

<sup>3</sup> For Elastic Recovery test see the following test method.

**TABLE 3**  
**ANIONIC EMULSIFIED LATEX MODIFIED ASPHALT**

PROPERTY	TEST METHOD	SS-1L		
		SPECIFICATION	DEVIATION	
		100	80	50 or Remove
Viscosity, Saybolt 25° C, SSF	AASHTO T 59	20-100	10-19 101-150	9- 151+
Storage Stability, 24Hour, %	AASHTO T 59	1.0-	---	---
Sieve Test, retained on the No. 20, %	AASHTO T 59	0.1-	---	---
Residue by Distillation <sup>1</sup> , 204° C, %	ASTM D 244	57+	---	56-
<b>TESTS ON RESIDUE FROM DISTILLATION TEST:</b>				
Penetration, 25° C, 100g, 5s	AASHTO T 49	100-200	88-99 201-212	87- 213+
Ductility, 5 cm/min., 4° C	AASHTO T 51	50+	41-49	40-
Elastic Recovery <sup>2</sup> , 10° C, 20 cm elongation 60 min, %	---	50+	---	49-
Softening Point, Ring & Ball, ° C	AASHTO T 53	50.0+	45.1- 49.9	45.0-

- <sup>1</sup> ASTM D244, Residue by Distillation, Section 12, is modified as follows: The temperature on the lower thermometer shall be brought slowly to  $204 \pm 5^{\circ}\text{C}$  and maintained at this point for 15 minutes. Generally, the distillation should be complete at this point and must be accomplished within a maximum of 60 minutes.
- <sup>2</sup> For Elastic Recovery test see the following test method.

## SEPARATION OF POLYMER TEST

### 1. Scope

1.1 The separation of polymer from asphalt cement during hot storage is evaluated by comparing the ring and ball softening points of top and bottom samples taken from a conditioned sealed tube of polymer modified asphalt. The conditioning consists of placing a sealed tube of polymer modified asphalt in a vertical position in a  $325^{\circ}\text{F}$  oven for a 2 day period.

### 2. Referenced Documents

2.1 AASHTO T 53 Softening Point of Asphalt (Bitumen) and Tar in Ethylene Glycol (Ring-and-Ball).

2.2 ASTM E 11 Specifications for Wire Cloth Sieves for Testing Purposes.

### 3. Apparatus

3.1 Aluminum Tubes - The tubes are used to hold the test sample during the conditioning. The cylinders are defined as 1 inch diameter by 5 1/2 inches length blind aluminum tubes.

3.2 Oven - An oven capable of maintaining  $325 \pm 10^{\circ}\text{F}$ .

3.3 Freezer - A freezer capable of maintaining  $20 \pm 10^{\circ}\text{F}$ .

3.4 Rack - A rack capable of holding the aluminum tubes in a vertical position in an oven or in the freezer

3.5 Shears (or spatula and hammer) - The shears (or spatula and hammer) shall be rigid and sharp to allow cutting of the tube containing the polymer modified asphalt when it is at low temperature.

#### 4. Procedure

4.1 Place the empty tube, sealed end down, in the rack.

4.2 Carefully heat the sample until sufficiently fluid to pour. Care should be taken to avoid localized overheating. Strain the melted sample through a No. 50 sieve conforming to ASTM E 11. After a thorough stirring, pour 50.0 g into the vertically held tube. Fold the excess tube over two times and crimp the seal.

4.3 Place the rack containing the sealed tubes in a  $325 \pm 10^\circ \text{F}$  oven. Allow the tubes to stand undisturbed in the oven for a period of  $48 \pm 1$  hour. At the end of the heating period, remove the rack from the oven and immediately place in the freezer, at  $20 \pm 10^\circ \text{F}$  taking care to keep the tubes in a vertical position at all times. Leave the tubes in the freezer for a minimum of 4 hours to completely solidify the sample.

4.4 Upon removing the tube from the freezer, place the tube on a flat surface. With the shears (or spatula and hammer), cut the tube into three equal length portions. Place the top and bottom portions into separate marked beakers. Place the beakers in a  $325 \pm 10^\circ \text{F}$  oven until sufficient fluid to remove the pieces of aluminum tube.

4.5 After a thorough stirring, pour the top and bottom samples into the appropriately marked rings of the ring and ball softening point test. Prepare the rings and apparatus as described in AASHTO T 53.

4.6 The top and bottom sample from the same tube should be run at the same time on the softening point test.

#### 5. Report

5.1 Record the softening point of the top and bottom portions of the sample. Duplicate separation tests should be run.

#### FORCE DUCTILITY TEST

The force ductility test follows procedures as specified in ASTM D 113 - "Ductility of Bituminous Materials" with the following conditions and modifications:

- (a) Temperature -  $4^\circ \text{C}$
- (b) Rate of Travel - 5 cm/min.

- (c) The standard V-shaped sides for the specimen mold shall be replaced by straight-sided inserts of the same length, so that the specimen will contain a section 1 cm x 1 cm x 3 cm.
- (d) A calibrated force adapter is placed on one end of the specimen mold, so that the tensile force can be determined at any point during the elongation.

The force ductility is defined as the force at 30 cm elongation ( $f_2$ ) divided by the maximum force at the initial peak ( $f_1$ ). Report the force ductility to the nearest hundredth (0.01).

### ELASTIC RECOVERY

1. Ductilometer Temperature:

Polymerized Asphalt Cement	25° C
Emulsified Polymer or Latex Modified Asphalt	10° C

2. Procedure: Condition the ductilometer and samples to be tested at the temperature prescribed for that material. Prepare the brass plate, mold and briquet specimen in accordance with ASTM D 113, "Ductility of Bituminous Materials". The standard V-shaped sides for the specimen mold shall be replaced by straight-sided inserts of the same length, so that the specimen will contain a section 1 cm x 1 cm x 3 cm. With the specimen at the specified test temperature, place the specimen in the ductilometer and immediately elongate the specimen to 10 cm for Polymer Modified Asphalt Cement or 20 cm for Emulsified Polymer or Latex Modified Asphalt. The rate of pull shall be 5 cm/min, unless otherwise stated. For Polymer Modified Asphalt Cement, clip the sample approximately in half with scissors or other suitable cutting device immediately after reaching the 10 cm elongation. For Emulsified Polymer or Latex Modified Asphalt, allow the sample to remain in its elongated position for  $5 \pm 0.25$  minutes after reaching the 20 cm elongation, then clip the sample approximately in half with scissors or other suitable cutting device. Let the severed sample remain in the ductilometer in an undisturbed condition for 1 hour. At the end of this time period, carefully move the traveling carriage back to a position where the severed ends of the specimen touch. Observe and record the elongation of the specimen with severed ends just touching each other.

3. Calculation: Calculate percent recover by the following formulas:

For Polymer Modified Asphalt Cement

$$\% \text{ Recovery} = \frac{10 - a}{10} \times 100$$

Where:

a = observed elongation after rejoining of sample, cm.

For Emulsified Polymer or Latex Modified Asphalt

$$\% \text{ Recovery} = \frac{20 - a}{20} \times 100$$

Where:

a = observed elongation after rejoining of sample, cm.



State of Louisiana  
Department of Transportation and Development

Qualified Products List 2

**AGGREGATES**

*Aggregates from the following sources have demonstrated the capability to conform to the quality requirements of Section 1003 of the Department's Standard Specifications for Roads and Bridges, except as noted.*

*Superscript numbers placed **behind** the source, material, or column heading throughout this list indicate the existence of restrictions, exceptions, or special applications for sources and/or material. See 'Endnotes' and 'Notes' at the end of each section for legend and application.*

**A. CHERT GRAVEL AND SILICA SAND**

*Chert gravels on this list have a Friction Rating of III when used as a coarse aggregate for Asphaltic Concrete. Friction Ratings are defined in Subsection 1003.06*

**1. IN-STATE SOURCES - BY DISTRICT**

PRODUCT SOURCE CODE	SOURCE	SPECIFIC GRAVITY OF GRAVEL (SSD) <sup>A-3</sup>
<b>DISTRICT 03</b>		
A307	Acadiana Home & Lawn, (Broussard) Eunice, LA SMM: APS00005690	Sand Only
A305	B & D Sand Pit (Parks) SMM: APS00005800	Sand Only
A309	DuPont Sand, LLC (Carencro) SMM: APS00006160	Sand Only
A308	L & W Sand Pit, LLC (Carencro) SMM: APS00006550	Sand Only
A312	Lafayette Sand & Fill, LLC (Carencro) Lafayette, LA SMM: APS00011760	Sand Only
A311	Perero Co. DBA, DND Landscape (Broussard) SMM: APS00011660	Sand Only
A310	Vermillion Shell & Limestone Co. Inc. (Maurice) SMM: APS00007310	Sand Only

PRODUCT SOURCE CODE	SOURCE	SPECIFIC GRAVITY OF GRAVEL (SSD) <sup>A-3</sup>
<b>DISTRICT 04</b>		
A429	Blount Bros. Construction, Inc. (Blount Bros. Pit) Shreveport, LA SMM: APS00011330	Sand Only
A428	MRH Sand & Gravel (Benton, LA) <sup>3</sup> SMM: APS00006830	2.60
A427	South Land Sand (Ringgold) SMM: APS00007000	2.60 Gravel Only
<b>DISTRICT 05</b>		
A509	Century Ready Mix #2 (Jonesboro Road) Monroe SMM: APS00006000	Sand Only
A502	TXI (Perryville) SMM: APS00007270	2.54
<b>DISTRICT 07</b>		
A712	DSD Energy Services (Oakdale Pit) Oakdale SMM: APS00006130	Sand Only
A710	Kinder Sand Company (Kinder) <sup>2</sup> SMM: APS00006520	Sand Only
A702	Trinity (Indian Village Plant 1284) SMM: APS00007230	2.55
A709	Village Sand, Inc. (Indian Village) SMM: APS00007320	Sand Only
<b>DISTRICT 08</b>		
A849	Diamond B Construction, LLC (Hot Wells/Gardener Pit) Boyce SMM: APS00011710	Sand Only
A850	Diamond B Construction, LLC (Woodworth Pit) Woodworth SMM: APS00011720	Sand Only
A847	Larry Grayson & Son Trucking, LLC (Ahtus Melder Rd Pit) Forest Hill, LA SMM: APS00011680	2.57
A844	Tanner Heavy Equipment Co. (Tanner Pit #2) (Leesville) SMM: APS00007150	Sand Only
A846	Trinity Materials, Inc. (Anacoco #1391) Merryville SMM: APS00007220	2.56
A822	TXI (Woodworth) <sup>5</sup> SMM: APS00007300	2.54

PRODUCT SOURCE CODE	SOURCE	SPECIFIC GRAVITY OF GRAVEL (SSD) <sup>A-3</sup>
<b>DISTRICT 58</b>		
A915	Aimwell Aggregates, Inc. (Aimwell) SMM: APS00005720	2.54
A916	Amberg Construction (Aimwell) Olla SMM: APS00011810	Sand Only
A914	Swim Enterprises, Inc. (Columbia) SMM: APS00007130	Sand Only
A913	TXI Corporation (Jena) <sup>3</sup> SMM: APS00007290	2.55
<b>DISTRICT 61</b>		
A643	B. & M. B., Inc. (Thompson Pit) St. Francisville SMM: APS00005820	2.55
A644	Barber Brothers Contracting (Acme Pit) Clinton SMM: APS00011640	2.55
A628	Bear Industries (Port Allen) <sup>1</sup> SMM: APS00002200	Sand Only
A646	Bunch's Gravel Inc., Pit 1 (Clinton) <sup>2</sup> SMM: APS00005950	2.56
A645	Dolese Bros. Co. (St. Helena S & G Pit) Pine Grove <sup>2</sup> SMM: APS00011650	2.55
A636	Feliciano Farms, Inc. (Bayou Sara) SMM: APS00006180	2.54
A632	Hooper Road Dirt Pit (Baton Rouge) SMM: APS00006400	Sand Only
A638	Odom Doze Service LLC (Clinton) SMM: APS00011440	2.53
----	Regional Sand & Gravel, LLC (Clinton) <sup>2</sup> Highway 960 Pit SMM: APS00011920	2.50
A640	Southern Aggregates (Felps) Norwood SMM: APS00007010	2.53
A633	Southern Silica of LA (Baywood North) Baywood <sup>3</sup> SMM: APS00007050	2.50
A642	Tri-State Resources, LLC (Mine Site #1) Clinton SMM: APS00011570	2.53

PRODUCT SOURCE CODE	SOURCE	SPECIFIC GRAVITY OF GRAVEL (SSD) <sup>A-3</sup>
<b>DISTRICT 62</b>		
A156	A-1 Sand and Gravel (Warnerton) Mt. Hermon <i>SMM: APS00005680</i>	2.52
<b>DISTRICT 62 (continued)</b>		
AX04	Accardo Materials, Inc. (Isabel) <sup>3</sup> <i>SMM: APS00005700</i>	2.57
AY21	Angelle Aggregates (Greensburg) <i>SMM: APS00005760</i>	2.56
AX42	B & J, Inc. (McCain Pit) Franklinton <sup>3</sup> <i>SMM: APS00005810</i>	2.53
AY29	BMS, L.L.C. (Amite Pit) <sup>4</sup> <i>SMM: APS00011340</i>	2.52
AX81	Barriere Construction Co., LLC (Franklinton) <i>SMM: APS00005850</i>	2.53 Gravel Only
AY25	Barriere Construction Co., LLC (Franklinton) Barriere-Knight Pit <i>SMM: APS00005840</i>	2.49
AY27	Barriere Construction Co., LLC #4 (Roseland) <i>SMM: APS00005860</i>	2.53
AY06	Bass Sand & Gravel (Bogalusa) <i>SMM: APS00005870</i>	2.47
AX94	Bayou Sand & Gravel, LLC (Tangipahoa) <i>SMM: APS00005890</i>	2.55
AX97	Bayou Sand & Gravel, LLC (Amite) <i>SMM: APS00005880</i>	2.53
AY20	Blackwell Aggregates, Inc. (Hickory Pit) <sup>2</sup> <i>SMM: APS00005910</i>	2.46
AY33	Bunch's Gravel Inc., Pit 2 (Greensburg) <i>SMM: APS00011800</i>	2.55
AY10	Cash Sand & Gravel, Inc. (Easterly Plant) Denham Springs, LA <i>SMM: APS00005990</i>	2.52
AY04	Crawford Aggregate Industries, LLC (Grangeville) <i>SMM: APS00006070</i>	2.53

PRODUCT SOURCE CODE	SOURCE	SPECIFIC GRAVITY OF GRAVEL (SSD) <sup>A-3</sup>
<b>DISTRICT 62 (continued)</b>		
AY28	Crawford Aggregate Industries, LLC (Dennis Mills) Denham Springs, LA SMM: APS00006050	2.52
AX71	Daley Sand and Gravel (Roseland) SMM: APS00006100	2.50
AY34	Diamond B Construction, LLC (Roseland) Drude Pit SMM: APS00011700	2.53
AY17	Enon Sand and Gravel, LLC Enon Plant (Franklinton) SMM: APS00006170	2.54
AY24	Florida Parishes Aggregate, Kent Pit (Fluker) SMM: APS00006190	2.56
AX91	Gillman Enterprises, LLC (Independence) SMM: APS00006240	2.52
AX75	Hard Rock Sand & Gravel LLC (Franklinton) <sup>4</sup> SMM: APS00011410	2.51
AY14	Hard Rock Sand & Gravel LLC #2 (Franklinton) SMM: APS00006350	2.54
AX89	Hard Rock Sand & Gravel, LLC (Mt. Hermon) SMM: APS00006360	2.55
AY30	Hunt Gravel (Franklinton) SMM: APS00011460	2.51
AX72	Industrial Aggregates, LLC (Franklinton) SMM: APS00006450	2.53
AY31	Industrial Mining Plant #5 (Tickfaw) Black Cat Pit SMM: APS00011520	2.50
AX68	K & C Gravel (Independence) SMM: APS00006510	Sand Only
AY01	Lafarge (Isabel) Bogalusa SMM: APS00006600	2.52

PRODUCT SOURCE CODE	SOURCE	SPECIFIC GRAVITY OF GRAVEL (SSD) <sup>A-3</sup>
<b>DISTRICT 62 (continued)</b>		
AY03	Lafarge (Honey Island) Pearl River <i>SMM: APS00006590</i>	2.51
AX43	Lon-Land Gravel Company (Franklinton) <sup>3</sup> <i>SMM: APS00006670</i>	2.53
A135	Mears Sand & Gravel (Dennis Mills) <i>SMM: APS00006770</i>	2.51
AY12	P & J Sand & Gravel, LLC (Independence) <i>SMM: APS00006850</i>	2.48
AX29	Ram Industries (Franklinton) <sup>4</sup> <i>SMM: APS00006920</i>	2.55
AY05	Sand Hill Aggregates (Watson) <i>SMM: APS00006950</i>	2.51
AX98	Seal Dozer & Gravel, LLC (Franklinton #1) <i>SMM: APS00011420</i>	2.55
AY19	Seal Dozer & Gravel, LLC (Franklinton #2) <i>SMM: APS00006960</i>	2.52
AX93	SGM, LLC (Kentwood) <i>SMM: APS00006970</i>	2.55
AX69	Smith Sand & Gravel (Franklinton) <i>SMM: APS00006990</i>	2.52
AX59	Southern Aggregates, L.L.C. (Dennis Mills) Walker <i>SMM: APS00007040</i>	2.52
AY16	Southern Aggregates, LLC (Clemon's) Watson <i>SMM: APS00007020</i>	2.51
AY26	Southern Aggregates, LLC (Plant #7) Denham Springs <i>SMM: APS00007030</i>	2.52
AY32	Southern Aggregates, LLC (Plant #9) Amite <sup>2</sup> <i>SMM: APS00011790</i>	2.53
AX13	Standard Gravel Company, Inc. (Nicholson #7) Pearl River <sup>3</sup> <i>SMM: APS00007100</i>	2.51

PRODUCT SOURCE CODE	SOURCE	SPECIFIC GRAVITY OF GRAVEL (SSD) <sup>A-3</sup>
<b>DISTRICT 62 (continued)</b>		
AX84	Standard Gravel Company (Franklinton) SMM: APS00007070	2.53 Gravel Only
AX88	Standard Gravel Company (Warnerton Plant) (Franklinton) SMM: APS00007120	2.54 Gravel Only
AY09	Standard Gravel Company (Green Lakes Pit) Franklinton SMM: APS00007090	2.55 Gravel Only
AY18	Standard Gravel Company (Honey Island Swamp) Pearl River Pit (Pearl River) SMM: APS00007110	2.49
AX96	T & D Sand & Gravel, LLC (Amite) SMM: APS00007140	2.53
AB98	Willis Sand & Gravel (Sun) SMM: APS00007490	2.52

-End 'In-State' Sources

## 2. OUT-OF-STATE SOURCES

PRODUCT SOURCE CODE	SOURCE	TYPE OF MATERIAL	SPECIFIC GRAVITY (SSD) <sup>A-3</sup>
ASAN	Alabama Sand & Gravel (Billingsley Pit) Prattville, AL SMM: APS00005730	Gravel Sand	2.63 2.62
ASAV	Alliance Sand and Gravel, LLC (Phil Campbell Pit) Phil Campbell, AL SMM: APS00005740	Sand	2.62
ASAK	Allstate Deatsville, LLC - Deatsville Pit Deatsville, AL SMM: APS00005750	Sand	2.62
ABAO	Arkansas Gravel Co., Inc. (Bradshaw Mine) Hampton, AR SMM: APS00005780	Gravel Sand	2.56 2.62
AB76	B & B Gravel And Trucking Co. Bearden, AR SMM: APS00005790	Gravel Sand	2.55 2.62

PRODUCT SOURCE CODE	SOURCE	TYPE OF MATERIAL	SPECIFIC GRAVITY (SSD) <sup>A-3</sup>
<b>OUT-OF-STATE SOURCES (continued)</b>			
ASAR	Baldwin Sand & Gravel (Crystal Springs Pit) <sup>4</sup> Philadelphia, MS <i>SMM: APS00005830</i>	Gravel Sand	2.57 2.62
ASAM	Blackwell Aggregates, Inc. (Jackson Landing Pit) Nicholson, MS <i>SMM: APS00005920</i>	Gravel Sand	2.48 2.62
AA57	Blain Sand & Gravel, Inc. Crystal Springs, MS <i>SMM: APS00005940</i>	Gravel Sand	2.54 2.62
AB31	Blain Sand & Gravel, Inc. <sup>3</sup> Natchez, MS (Cloverhill Pit) <i>SMM: APS00005930</i>	Gravel Sand	2.57 2.62
AA67	Cossatot Materials, Inc. <sup>3</sup> Lockesburg, AR <i>SMM: APS00006030</i>	Gravel Sand	2.54 2.62
AB46	D & B Sand & Gravel Co., Inc. <sup>3</sup> Georgetown, MS <i>SMM: APS00006090</i>	Gravel Sand	2.53 2.62
AA80	Dickerson & Bown Riverside Gravel McComb, MS <i>SMM: APS00006110</i>	Gravel Sand	2.46 2.62
ASAS	Eastern Oklahoma Quarries, LLC (Spiro Pit) Spiro, OK <i>SMM: APS00011350</i>	Sand	2.62
ASBB	Eastern Oklahoma Quarries (Chieftan Sand Pit) <sup>2</sup> Garland, AR <i>SMM: APS00011470</i>	Sand	2.63
ASAJ	Foley Materials Company – Plant 505 Phenix City, AL <i>SMM: APS00006210</i>	Sand	2.62
ASAT	Foley Materials Company – Plant 501 Phenix City, AL <i>SMM: APS00006200</i>	Sand	2.62
ASAI	Fouke Aggregate, LLC Fouke, AR <i>SMM: APS00006230</i>	Gravel Sand	2.61 2.62



PRODUCT SOURCE CODE	SOURCE	TYPE OF MATERIAL	SPECIFIC GRAVITY (SSD) <sup>A-3</sup>
<b>OUT-OF-STATE SOURCES (continued)</b>			
ASAZ	FRAC Diamond Aggregates, LLC (Nicholson Pit) <sup>4</sup> Nicholson, MS SMM: APS00011360	Gravel Sand	2.49 2.63
ABAK	Green Bros. Gravel Co. #22 Hazlehurst, MS SMM: APS00006260	Gravel Sand	2.50 2.62
ABAL	Green Bros. Gravel Co. #65 Crystal Springs, MS SMM: APS00006270	Gravel Sand	2.50 2.62
ASAW	Hallett Materials – Texas Division (Porter Plant) Porter, TX SMM: APS00006290	Sand	2.63
ASBF	Hammett & Green Aggregates, LLC (Henry Mine Pit) <sup>2</sup> Vicksburg, MS SMM: APS00011690	Gravel Sand	2.56 2.62
ASAU	Hammett Gravel Co., Inc. (Yazoo City Operation) Benton, MS SMM: APS00006300	Gravel Sand	2.56 2.62
AA70	Hanson Aggregates (Eagle Mills) Bearden, AR SMM: APS00006310	Gravel Sand	2.57 2.62
A092	Hanson Aggregates (Little River) Ashdown, AR SMM: APS00006320	Gravel Sand	2.56 2.62
ASBE	Hanson Aggregate (Bristol Plant) Ennis, TX SMM: APS00011630	Sand	2.63
AB07	Huey Stockstill, Inc. <sup>3</sup> Picayune, MS SMM: APS00006420	Gravel Sand	2.47 2.62
AB26	Hutchinson Island Mining Corporation <sup>4</sup> Picayune, MS SMM: APS00006430	Gravel Sand	2.53 2.62
ASBC	Hutchinson Island Mining Corporation <sup>2</sup> Picayune, MS Santa Rosa Pit SMM: APS00011450	Sand	2.63

PRODUCT SOURCE CODE	SOURCE	TYPE OF MATERIAL	SPECIFIC GRAVITY (SSD) <sup>A-3</sup>
<b>OUT-OF-STATE SOURCES (continued)</b>			
ABAP	JJ Ferguson Sand & Gravel Blackhawk Pit <sup>2</sup> Greenwood, MS <i>SMM: APS00006490</i>	Sand Gravel	2.62 2.54
A091	Johnsville Sand & Gravel Johnsville, AR <i>SMM: APS00006500</i>	Gravel Sand	2.55 2.62
ASAG	King Sand & Gravel Kerens, TX <i>SMM: APS00006530</i>	Sand	2.62
AB91	Krystal Gravel, Inc. Crystal Springs, MS <i>SMM: APS00006540</i>	Gravel Sand	2.53 2.62
ASAE	Lockesburg – 1544 <i>SMM: APS00007250</i>	Gravel Sand	2.48 2.62
ASAL	Marion Clay and Gravel, L.L.C. Columbia, MS <i>SMM: APS00006680</i>	Gravel Sand	2.48 2.62
ABAS	Martin Marietta Materials (Broken Bow Sand & Gravel) Eagleton, OK <i>SMM: APS00006700</i>	Gravel	2.56
ASAX	Martin Marietta Materials (Garwood Plant) Humble, TX <i>SMM: APS00006720</i>	Gravel	2.57
ABAC	Memphis Stone & Gravel Co. (Anderson Plant) Nesbit, MS <i>SMM: APS00006780</i>	Sand	2.62
ABAD	Memphis Stone & Gravel Co. (Perry Plant) Senatobia, MS <i>SMM: APS00006790</i>	Sand	2.62
ASAQ	Oddee Smith Construction, Inc. (Oddee California Camp Pit) Brookhaven, MS <i>SMM: APS00006840</i>	Gravel	2.56
A018	Perkinston Sand & Gravel Perkinston, MS <i>SMM: APS00006860</i>	Sand	2.62

PRODUCT SOURCE CODE	SOURCE	TYPE OF MATERIAL	SPECIFIC GRAVITY (SSD) <sup>A-3</sup>
<b>OUT-OF-STATE SOURCES (continued)</b>			
ASAF	R & R Logging & Gravel Columbia, MS <i>SMM: APS00006910</i>	Gravel Sand	2.49 2.62
ASAP	Riverside Sand & Gravel (NW St. Paul Pit) Tylertown, MS <i>SMM: APS00006930</i>	Sand	2.62
ASAY	Simpson Materials Company (Ranken Site) Valley Park, MO <i>SMM: APS00006980</i>	Gravel	2.51
ASBA	South Gate Aggregates, L.L.C. <sup>3</sup> (Burge Pit) Nicholson, MS <i>SMM: APS00011380</i>	Gravel Sand	2.47 2.63
AB69	Standard Gravel Company (SGC Glendale Pit) Hattiesburg, MS <i>SMM: APS00007080</i>	Gravel Sand	2.56 2.62
ASAO	Standard Gravel Company Columbia, MS (Bradley Pit) <i>SMM: APS00007060</i>	Gravel	2.54
ASBD	Standard Gravel Company Columbia, MS (Gross/Webb Pit) <i>SMM: APS00011550</i>	Gravel	2.53
AB27	The Fordyce Company <sup>3</sup> Victoria, TX (Briggs Plant) <i>SMM: APS00007170</i>	Gravel Sand	2.74 2.62
ASAH	Triangle Aggregates, Inc. Jackson, AL <i>SMM: APS00007210</i>	Gravel	2.61
ASAA	Wooten Sand & Gravel Fouke, AR <i>SMM: APS00007510</i>	Gravel Sand	2.60 2.62

-End 'Out-of-State' Sources

### ENDNOTES TO SECTION A:

1. *Sand from this source is approved for asphaltic concrete only.*
2. *Sand from this source is restricted in Portland Cement Concrete to cements or cement/fly ash combinations with 0.6% alkalis or less.*
3. *Gravel from this source is restricted in Portland Cement Concrete to cements or cement/fly ash combinations with 0.6% alkalis or less.*
4. *Sand and Gravel from this source are restricted in Portland Cement Concrete to cements or cement/fly ash combinations with 0.6% alkalis or less.*
5. *Gravel from this source contains an unusual amount of hematite iron ore. If used in Portland Cement Concrete, the hematite content cannot exceed 2%.*

### NOTES:

#### **Note A-1:**

Source approval samples of gravel and sand are obtained by personnel from the Materials and District Laboratories. The source is defined as the pit or quarry which produces the aggregate being evaluated. All aggregate which does not pass through the 4.75mm (No. 4) sieve shall be source approved prior to use. Certain aggregates may be approved for restricted use. A complete source approval analysis shall be run on each aggregate source.

#### **NOTE A-2:**

All material, regardless of prior approval, shall be sampled in accordance with the Materials Sampling Manual and tested for conformance to the appropriate specifications. A deviation in performance from the original sample submitted may result in removal of the material from the qualified list.

#### **NOTE A-3:**

A specific gravity value of 2.62 (SSD) may be used for all in-state silica sands used for portland cement concrete.

#### **NOTE A-4:**

Because absorption has been found to correlate with the type and specific gravity of silica sands and chert gravels, the water absorption factors given in the following table may be used:

Specific Gravity (SSD)	Water Absorption Factor
<b>SAND</b>	
2.62	0.5
<b>GRAVEL</b>	
2.45	4.0
2.46	4.0
2.47	3.5
2.48	3.5
2.49	3.5
2.50	3.0
2.51	2.5
2.52	2.5
2.53	2.2
2.54	1.7
2.55	1.5
2.56	1.2
2.57	1.0
2.58	1.0
2.59	1.0
2.60	1.0
2.61	0.8
2.62	0.8
2.63	0.8

**B. OTHER AGGREGATE MATERIALS**

<b>PRODUCT SOURCE CODE</b>	<b>SOURCE</b>	<b>MATERIAL</b>	<b>APPROVED USES &amp; FRICTION RATINGS<sup>B-1</sup></b>
ABBC	AgreCasa Del Caribe Relelpedregal 21 y 23 Calle 22 Ave. B San Pedro Sula-Honduras (Water Absorption = 1.6) (Spec. Gravity - SSD = 2.63) <i>SMM: APS00005710</i>	Stone (Limestone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
ABBY	APAC-Brickey's Stone 13588 Brickey's Road Bloomsdale, MO 63627 (Water Absorption = 1.4) (Spec. Gravity - SSD = 2.64) <i>SMM: APS00005770</i>	Stone (Limestone) Burlington Formation	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = III) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
ABCD	APAC-Brickey's Stone 13588 Brickey's Road Bloomsdale, MO 63627 (Water Absorption = 1.9) (Spec. Gravity - SSD = 2.61) <i>SMM: APS00011430</i>	Stone (Limestone) Plattin Formation	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
ABCJ	Arkansas Aggregates, Inc. 3M - Big Rock Quarry 6350 Arch Street Little Rock, AR 72216 (Water Absorption = 0.6%) (Spec. Gravity - SSD = 2.59) <i>SMM: APS00011730</i>	Granite	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
AB25	Big River Industries, Inc. Erwinville, LA 70729 (Water Absorption = 16.3) (Spec. Gravity - SSD = 1.65) <i>SMM: APS00005900</i>	Expanded Clay Lightweight Aggregate	1) Asphaltic Surface Treatment (Type B, C, & D applications only) 2) Asphaltic Concrete (excluding wearing surfaces) (Friction Rating = I) 3) Portland Cement Concrete
ABBU	Calx Resources Chaudet Creek Quarry 877 Dover Road Grand Rivers, KY 42025 (Water Absorption = 0.5) (Spec. Gravity - SSD = 2.70) <i>SMM: APS00005960</i>	Stone (Siliceous Limestone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = III) 4) Portland Cement Concrete 5) Riprap & Stone Revetment

PRODUCT SOURCE CODE	SOURCE	MATERIAL	APPROVED USES & FRICTION RATINGS <sup>B-1</sup>
<b>OTHER AGGREGATE MATERIALS (continued)</b>			
ABBK	Capital Aggregates Marble Falls 8147 US-281 North Burnet, TX 78611 (Water Absorption = 0.6) (Spec. Gravity - SSD = 2.79) SMM: APS00005970	Stone (Limestone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
ABAR	Carolina Stalite Company P. O. Box 186 Gold Hill, NC 28072 (Water Absorption = 3.7) (Spec. Gravity - SSD = 1.45) SMM: APS00005980	Lightweight Aggregate (Expanded Slate); Gold Hill, NC	1) Asphaltic Surface Treatment 2) Asphaltic Concrete (excluding wearing surfaces) (Friction Rating = I) 3) Portland Cement Concrete (where specified)
ABCI	Central Stone Co. (Butler Hill Granite Quarry) 5601 Hwy DD Farmington, MO 63640 (Water Absorption = 0.3) (Spec. Gravity - SSD = 2.62) SMM: APS00011620	Granite	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
ABBX	Columbus Quarry, L.L.C. Fortson Quarry 3001 Smith Road Fortson, GA 31808 (Water Absorption = 0.7) (Spec. Gravity - SSD = 2.66) SMM: APS00006020	Granite	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
ABBN	Crystal Hill Quarry (Granite Mountain Quarries) 9100 Rowlett Drive North Little Rock, AR 72113 (Water Absorption = 0.9) (Spec. Gravity - SSD = 2.62) SMM: APS00006080	Stone (Sandstone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = II) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
AB04	Delta Materials P. O. Box 99 Marble Falls, TX 78654 (Water Absorption = 2.1) (Spec. Gravity OSSD = 2.56) SMM: APS00007520	Stone (Sandstone; Fairland, TX)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = I) 4) Portland Cement Concrete 5) Riprap & Stone Revetment

PRODUCT SOURCE CODE	SOURCE	MATERIAL	APPROVED USES & FRICTION RATINGS <sup>B-1</sup>
<b>OTHER AGGREGATE MATERIALS (continued)</b>			
AB28	Donna Fill, Inc. P. O. Box 722 Little Rock, AR 72203 (Spec. Gravity – Apparent = 2.62 <i>SMM: APS00006120</i>	Stone (Syenite Granite Fines, Donna Fill, Little Rock, AR)	This is a manufactured sand approved for the following applications 1) Special Embankment (non-plastic) 2) Select Materials 3) Granular Material for Subbase 4) Supplemental Fines (screenings) for Asphaltic Concrete (Friction Rating – III)
ABAE	Duffield Gravel Co. 16 Bluff Drive Russellville, AR 72802 (Water Absorption = 1.4) (Sp. Grav. (SSD) = 2.62) <i>SMM: APS00006150</i>	Stone (Sandstone; New Hope Quarry)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = III) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
ABAF	Duffield Gravel Co. 16 Bluff Drive Russellville, AR 72802 (Water Absorption = 1.5) (Sp. Grav. (SSD) = 2.60) <i>SMM: APS00006140</i>	Stone (Sandstone; Gum Log Quarry)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = III) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
AA15	Foster Yoeman Limited Shepton Mallet Somerset, England BA4 4SQ (Water Absorption = 0.5) (Spec. Gravity - SSD = 2.62) <i>SMM: APS00006220</i>	Stone (Granite; Glensanda Quarry, Scotland)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = III) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
AB85	G & S Marketing Group, LLC 5001 Red Rock Road Adamsville, AL (Water Absorption = 4.3) (Spec. Gravity – SSD = 2.31) <i>SMM: APS00011480</i>	Stone <sup>5</sup> (Alumina Chert, Red Rock Quarry)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = III) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
AA89	Gads Hill Quarry P. O. Box 307 Piedmont, MO 63957 (Water Absorption = 0.3) (Spec. Gravity – SSD = 2.64) <i>SMM: APS00006010</i>	Stone <sup>2</sup> (Rhyolite 'Traprock'; Gads Hill, MO)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment



PRODUCT SOURCE CODE	SOURCE	MATERIAL	APPROVED USES & FRICTION RATINGS <sup>B-1</sup>
<b>OTHER AGGREGATE MATERIALS (continued)</b>			
A033	Granite Mountain Quarries P. O. Box 138 Sweet Home, AR 72164 (Water Absorption = 0.9) (Spec. Gravity - SSD = 2.59) SMM: APS00006250	Stone (Syenite Granite)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = II) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
A077	Hanson Aggregates P. O. Box 190999 Dallas, TX 75219 (Water Absorption = 0.8) (Spec. Gravity - SSD = 2.68) SMM: APS00006340	Stone <sup>2</sup> (Limestone; Perch Hill Plant; Bridgeport, TX)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
AB18	Hanson Aggregates P. O. Box 31135 New Braunfels, TX (Water Absorption = 1.6) (Spec. Gravity - SSD = 2.58) SMM: APS00006330	Stone <sup>2</sup> (Limestone; New Braunfels, TX)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
AA90	Hastie Mining Company 5845 Carsten Road Medina, OH 44256 (Water Absorption = 0.8) (Spec. Gravity - SSD = 2.66) SMM: APS00006370	Stone (Sandstone; Hastie Mining Company Quarry; Cave-In-Rock, IL)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = I) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
ABCM	Hastie Mining & Trucking RR1 Box 55 Cave-In-Rock, IL 62919 (Water Absorption = 0.7) (Spec. Grav. - SSD = 2.67) SMM: APS00011780	Stone (Limestone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = III) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
AB55	Heckett/MultiServ Plant #51 P. O. Box 822 Warsaw, KY 41095 (Water Absorption = 2.0) (Spec. Gravity - SSD = 3.26) SMM: APS00006390	Slag (EAF Steel Slag; Gallatin Steel Co., Ghent, KY)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = I)

PRODUCT SOURCE CODE	SOURCE	MATERIAL	APPROVED USES & FRICTION RATINGS <sup>B-1</sup>
<b>OTHER AGGREGATE MATERIALS (continued)</b>			
AB71	Heckett/MultiServ Plant #54 P. O. Box 247 Amorel, AR 72310 (Water Absorption = 1.6) (Spec. Gravity - SSD = 3.60) <i>SMM: APS00006380</i>	Steel Slag <sup>1</sup> (Nucor-Yamato Steel Co., Blytheville, AR)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = II) 4) Bedding Material
ABBM	Howe Mine P. O. Box 11050 Fort Smith, AR 72956 (Water Absorption = 2.5) (Spec. Gravity = 2.49) <i>SMM: APS00006410</i>	Stone (Sandstone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = I) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
AA91	Ideal Dominicana, S.A. P. O. Box 1323 Santo Domingo, Dominican Republic (Water Absorption = 1.3) (Spec. Gravity - SSD = 2.61) <i>SMM: APS00006440</i>	Stone (Limestone)	1) Base & Surface Course
ABCE	Industrias de Agregados Peralvillo los Montones, S.R.L. Avenida Romulo Batancourt #2058 Suite 202 Santo Domingo, Dominican Republic (Water Absorption = 0.8) (Spec. Gravity - SSD = 3.0) <i>SMM: APS00011390</i>	Stone <sup>1</sup> (Basalt Rock)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = II) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
AB14	International Mill Service 100 Old Highway 90 Rose City, TX 77662 (Water Absorption = 1.5) (Spec. Gravity - SSD = 3.60) <i>SMM: APS00006460</i>	Steel Slag <sup>1</sup> (North Star Steel Company)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = II)
AB73	Iron Mountain Trap Rock Co. 325 Highway W, Box 8 Iron Mountain, MO 63650 (Water Absorption = 0.2) (Sp. Grav.- SSD = 2.65) <i>SMM: APS00006470</i>	Stone (Rhyolite: Iron Mountain, MO)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment

PRODUCT SOURCE CODE	SOURCE	MATERIAL	APPROVED USES & FRICTION RATINGS <sup>B-1</sup>
<b>OTHER AGGREGATE MATERIALS (continued)</b>			
ABBO	Jamaica Aggregates Limited dba Lafarge 31 Molyne Road Kingston Jamaica (Water Absorption = 1.0%) (Spec. Gravity - SSD = 2.72) SMM: APS00006480	Stone (Crushed Alluvial Stone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = III) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
ABAM	Lafarge Aggregates RRI Box 267 Cave-In-Rock, IL 62919 (Water Absorption = 0.7) (Spec. Gravity - SSD = 2.68) SMM: APS00006570	Stone (Siliceous Limestone; Cave-In-Rock, IL; Ledges 8 - 10)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = III) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
ABAN	Lafarge Aggregates RRI Box 267 Cave-In-Rock, IL 62919 (Water Absorption = 0.8) (Spec. Gravity - SSD = 2.67) SMM: APS00006560	Stone (Sandstone; Cave-In-Rock, IL)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = I) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
----	Lafarge North America Three Rivers Quarry – Pit #1 830 Three Rivers Quarry Road Smithland, KY 42081 (Water Absorption = 0.89) (Spec. Gravity-SSD = 2.68) SMM: APS000011870	Stone St. Louis Limestone Bench S1 (Siliceous Limestone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = III) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
ABCA	Lafarge North America Fredonia Quarry 297 Fredonia Quarry Road Fredonia, KY 42411 (Water Absorption = 0.7) (Spec. Gravity-SSD=2.69) SMM: APS00006580	Stone (Siliceous Limestone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
ABCB	Lafarge North America Perryville Quarry 521 Quarry Lane Perryville, MO 63775 (Water Absorption=0.5) (Spec. Gravity-SSD=2.70) SMM: APS00006610	Stone (Limestone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete 5) Riprap & Stone Revetment

PRODUCT SOURCE CODE	SOURCE	MATERIAL	APPROVED USES & FRICTION RATINGS <sup>B-1</sup>
<b>OTHER AGGREGATE MATERIALS (continued)</b>			
ABCC	Lafarge North America Rosclair Quarry Rural Rt. 1, Box 128 Golconda, IL 62938 (Water Absorption=0.6) (Spec. Gravity-SSD=2.68) SMM: APS00006620	Stone (Limestone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = I) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
ABCF	Lafarge North America 2509 Mound Avenue Juliet, IL 60439 (Water Absorption – 1.3) (Spec. Gravity – SSD = 2.71) SMM: APS00011490	Stone (Dolomitic Limestone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge deck) 5) Riprap & Stone Revetment
A067	Little Rock Quarry Company P. O. Box 548 Benton, AR 72015 (Water Absorption = 1.2) (Spec. Gravity 0 SSD = 2.62) SMM: APS00006660	Stone (Sandstone; Arkadelphia, OR)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
AA92	Martin Marietta Aggregates P. O. Box 1325 Mena, AR 71953 (Water Absorption = 1.0) (Spec. Gravity - SSD = 2.64) SMM: APS00006710	Stone <sup>3</sup> (Rhyolite 'Traprock'; Hatton, AR)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = II) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
AA39	Martin Marietta Aggregates 3019 Riverwatch Parkway Augusta, GA 30907 (Water Absorption = 0.9) (Spec. Gravity - SSD = 2.70) SMM: APS00006750	Stone (Granite; Nova Scotia, Construction Aggregate Quarry)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = I) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
<b>OTHER AGGREGATE MATERIALS (continued)</b>			
AA86	Martin Marietta Aggregates 3019 Riverwatch Parkway Augusta, GA 30907 (Water Absorption = 3.9) (Spec. Gravity - SSD = 2.38) SMM: APS00006690	Stone (Porous Limestone; Bahama Island, Freeport)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = III) 4) Portland Cement Concrete

PRODUCT SOURCE CODE	SOURCE	MATERIAL	APPROVED USES & FRICTION RATINGS <sup>B-1</sup>
<b>OTHER AGGREGATE MATERIALS (continued)</b>			
AA51	Martin Marietta Aggregates P. O. Box 219 Powderly, TX 75473 (Water Absorption = 2.3) (Spec. Gravity - SSD = 2.52) <i>SMM: APS00006760</i>	Stone (Sandstone; Sawyer, OK)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = I) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
ABAW	Martin Marietta Aggregates 524 Central Avenue Hot Springs, AR 71901 (Water Absorption = 2.2) (Spec. Gravity - SSD = 2.53) <i>SMM: APS00006730</i>	Stone (Sandstone; Jones Mill Pit, Malvern, AR)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = II) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
ABAX	Martin Marietta Aggregates 524 Central Avenue Hot Springs, AR 71901 (Water Absorption = 0.9) (Spec. Gravity - SSD = 2.58) <i>SMM: APS00006740</i>	Stone (Syenite Granite; Jones Mill Pit, Malvern, AR)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = III) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
ABAG	Mineral Technology Systems 61 Nor Brook Drive Kingston, Jamaica W.I. (Water Absorption = 3.9) (Spec. Gravity - SSD = 2.40) <i>SMM: APS00006800</i>	Stone (Porous Limestone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks)
AB88	Missouri Red Quarries, Inc. HCR 63 Box 3371 Ironton, MO 63650 (Water Absorption = 0.4) (Sp. Gravity - SSD = 2.62) <i>SMM: APS00006810</i>	Stone (Granite: Ironton, Missouri)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
AB75	MMD Stone, LLC 600 N.E. Quarry Drive Jackson, MO 63755 (Water Absorption = 1.2) (Spec. Gravity - SSD = 2.64) <i>SMM: APS00006820</i>	Stone Siliceous Limestone; (Bailey Formation) Jackson, MO	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = III) 4) Portland Cement Concrete 5) Riprap & Stone Revetment

PRODUCT SOURCE CODE	SOURCE	MATERIAL	APPROVED USES & FRICTION RATINGS <sup>B-1</sup>
<b>OTHER AGGREGATE MATERIALS (continued)</b>			
ABBF	Pike County Constr./Earnest Investments P. O. Box 141 Kirby, AR 71950 (Water Absorption = 2.0) (Spec. Gravity - SSD = 2.56) <i>SMM: APS00006870</i>	Stone (Sandstone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = III) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
AB13	Pine Bluff Sand & Gravel Co. P. O. Box 80 New Blaine, AR 72851 (Water Absorption = 1.0) (Spec. Gravity - SSD = 2.63) <i>SMM: APS00006880</i>	Stone (Sandstone; River Mountain Quarry)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = I) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
ABBS	Pine Bluff Sand & Gravel Co. Cumberland River Quarry 780 Spencer Road Salem, KY 42078 (Water Absorption = 0.8) (Spec. Gravity - SSD = 2.68) <i>SMM: APS00006890</i>	Stone (Siliceous Limestone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = III) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
ABBH	Productos Mitza, S.A. DE C.V. KM 4.5 Carr. A. Caucel Merida Yucatan, Mexico 97248 (Water Absorption = 6.1) (Spec. Gravity - SSD = 2.32) <i>SMM: APS00006900</i>	Stone (Porous Limestone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks)
AB15	Texas Crushed Stone Co., Inc. Georgetown, TX (Water Absorption = 3.6) (Spec. Gravity - SSD = 2.48) <i>SMM: APS00007160</i>	Stone <sup>2</sup> (Limestone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
A056	Tower Rock Stone Company 19829 Lower Frenchman Road, Ste Genevieve, MO 63670 (Water Absorption = 1.6) (Spec. Gravity - SSD = 2.64) (Spec. Gravity - App = 2.72) (Spec. Gravity - Bulk = 2.60) <i>SMM: APS00007180</i>	Stone <sup>2</sup> (Limestone; St. Genevieve, MO)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = III) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment

PRODUCT SOURCE CODE	SOURCE	MATERIAL	APPROVED USES & FRICTION RATINGS <sup>B-1</sup>
<b>OTHER AGGREGATE MATERIALS (continued)</b>			
A079	Tower Rock Stone Company P. O. Box 69 Columbia, IL 62236 (Water Absorption = 4.8) (Spec. Gravity - SSD = 2.47) <i>SMM: APS00007190</i>	(Oolitic Stone; St. Genevieve, MO)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = III) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
ABCK	Trap Rock & Granite Quarries, LLC 1952 Country Road 96 Ironton, MO 63650 (Water Absorption = 0.3) (Spec. Gravity – SSD = 2.67) <i>SMM: APS00011770</i>	Stone (Granite)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
ABCL	Trap Rock & Granite Quarries, LLC 1952 Country Road 96 Ironton, MO 63650 (Water Absorption = 0.3) (Spec. Gravity – SSD = 2.65) <i>SMM: APS00011770</i>	Stone (Rhyolite)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
ABBD	Travis Creek Entergy, LLC 5969 Deans Ferry Road Trafford, AL 35233 (Water Absorption = 1.6) (Spec. Gravity - SSD = 2.64) <i>SMM: APS00007200</i>	Stone (Granite)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = I) 4) Portland Cement Concrete 5) Riprap & Stone Revetment
AB10	TXI P. O. Box 217 Streetman, TX 75859 (Water Absorption = 1.3) (Spec. Gravity – SSD = 2.64) <i>SMM: APS00007280</i>	Expanded Shale Lightweight Aggregate (Streetman- Lightweight)	1) Asphaltic Surface Treatment 2) Asphaltic Concrete (excluding wearing surfaces) (Friction Rating = I) 4) Portland Cement Concrete (where specified)
AB61	TXI 4600 Lee Street Alexandria, LA 71302 (Water Absorption = 1.3) (Spec. Gravity - SSD = 2.64) <i>SMM: APS00007260</i>	Stone (Limestone; Bridgeport, TX)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment

PRODUCT SOURCE CODE	SOURCE	MATERIAL	APPROVED USES & FRICTION RATINGS <sup>B-1</sup>
<b>OTHER AGGREGATE MATERIALS (continued)</b>			
A042	Vulcan Materials Company P. O. Box 7497 Birmingham, AL 35263 (Water Absorption = 0.7) (Spec. Gravity - SSD = 2.71) SMM: APS00007340	Stone <sup>2</sup> (Limestone Calera Quarry)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
AB42	Vulcan Materials Company P. O. Box 459 Cherokee, AL 35616 (Water Absorption = 0.9) (Spec. Gravity - SSD = 2.62) SMM: APS00007360	Stone <sup>2</sup> (Limestone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
AB53	Vulcan Materials Company P. O. Box 193 Georgetown, TX 78622 (Water Absorption = 0.8) (Spec. Gravity - SSD = 2.64) SMM: APS00007440	Stone (Limestone; Brownwood, TX)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
AB35	Vulcan Materials Company 1277 S. 7000 West Road Kankakee, IL 60901 (Water Absorption = 1.5) (Spec. Gravity - SSD = 2.69) SMM: APS00007400	Stone <sup>2</sup> (Limestone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
AB36	Vulcan Materials Company 6141 North Route 50 Manteno, IL 60950 (Water Absorption = 1.6) (Spec. Gravity - SSD = 2.65) SMM: APS00007330	Stone <sup>2</sup> (Limestone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment



PRODUCT SOURCE CODE	SOURCE	MATERIAL	APPROVED USES & FRICTION RATINGS <sup>B-1</sup>
<b>OTHER AGGREGATE MATERIALS (continued)</b>			
AA95	Vulcan Materials Company 285 West Esplanade Avenue Suite 402 Kenner, LA 70065 (Water Absorption = 3.7) (Spec. Gravity - SSD = 2.38) <i>SMM: APS00007350</i>	Stone (Porous Limestone - Sactun; Cancun, MX)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = III) 4) Portland Cement Concrete
AB19	Vulcan Materials Company P. O. Box 96 Trinity, AL 35673 (Water Absorption = 1.2) (Spec. Gravity - SSD = 2.65) <i>SMM: APS00007450</i>	Stone <sup>2</sup> (Limestone; Trinity Plant; Decatur, AL)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
AB41	Vulcan Materials Company P. O. Box 110 Tuscumbia, AL 35674 (Water Absorption = 0.7) (Spec. Gravity - SSD = 2.64) <i>SMM: APS00007460</i>	Stone <sup>2</sup> (Limestone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
ABBP	Vulcan Materials Company 947 U. S. Highway 62 Grand Rivers, KY 42045 (Water Absorption = 0.9) (Spec. Gravity - SSD = 2.67) <i>SMM: APS00007390</i>	Stone (Limestone; Grand Rivers Quarry Warsaw Formation)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
ABBQ	Vulcan Materials Company 947 U. S. Highway 62 Grand Rivers, KY 42045 (Water Absorption = 0.2) (Spec. Gravity - SSD = 2.68) <i>SMM: APS00007380</i>	Stone (Siliceous Limestone; Grand Rivers Quarry Ft. Payne Formation)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = II) <i>for ADT ≤ 20,000</i> 4) Portland Cement Concrete 5) Riprap & Stone Revetment
ABBR	Vulcan Materials Company 947 U. S. Highway 62 Grand Rivers, KY 52045 (Water Absorption = 0.7) (Spec. Gravity - SSD = 2.24) <i>SMM: APS00007420</i>	Stone (Siliceous Limestone; Lake City Quarry Salem Formation)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (Bridge Decks Excluded) 5) Riprap & Stone Revetment

PRODUCT SOURCE CODE	SOURCE	MATERIAL	APPROVED USES & FRICTION RATINGS <sup>B-1</sup>
<b>OTHER AGGREGATE MATERIALS (continued)</b>			
ABBT	Vulcan Materials Company Pride Quarry 18055 Highway 72 West Tuscumbia, AL 35674 (Water Absorption = 1.9) (Spec. Gravity – SSD = 2.60) <i>SMM: APS00007430</i>	Stone (Limestone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
ABBV	Vulcan Materials Company LaGrange Quarry 628 Vulcan Materials Road LaGrange, GA 30241 (Water Absorption = 0.4) (Spec. Gravity – SSD=2.66) <i>SMM: APS00007410</i>	Granite	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = IV) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
ABAY	Warren Paving 712 Lee Lane Salem, KY 42078 (Water Absorption = 0.3) (Spec. Gravity - SSD = 2.70) <i>SMM: APS00007480</i>	Stone (Limestone; Slats Lucas Quarry)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete (Friction Rating = III) 4) Portland Cement Concrete (excluding bridge decks) 5) Riprap & Stone Revetment
AB78	Winn Materials Clarksville, TN (Water Absorption = 0.6) (Sp. Gravity - SSD = 2.7) (Sp. Gravity - App = 2.72) (Sp. Gravity - Bulk = 2.68) <i>SMM: APS00007500</i>	Stone (Siliceous Limestone)	1) Base & Surface Course 2) Asphaltic Surface Treatment 3) Asphaltic Concrete and PCC (Friction Rating = IV) (excluding bridge decks) 4) Bedding Material 5) Riprap & Stone Revetment

**ENDNOTES TO SECTION B:**

1. *Due to the high apparent gravity of this aggregate, the yield of asphaltic concrete mixtures utilizing this material would be less than standard mixtures.*
2. *May be used in a final Asphaltic Concrete Wearing Course where the ADT per lane is less than 1000 VPD or the ADT per roadway is less than 2000 VPD and this aggregate does not constitute more than 70% by volume of the total aggregate in the mixture.*
3. *May be used as a Friction Rating of II in final Asphaltic Concrete Wearing Surfaces where the ADT for the total roadway is less than 40,000 VPD.*
4. *May be used in Asphaltic Surface Treatment for Type B and Type D applications only.*
5. *Material from this source is restricted in Portland Cement Concrete mixes to cement or cement/fly ash combinations with 0.6% alkalis or less.*

**NOTES:**

**NOTE B-1:**

Refer to Subsections 501.02 and 1003.06 for definition and application of Friction Ratings.

**NOTE B-2:**

All material, regardless of prior approval, shall be sampled in accordance with the Materials Sampling Manual and tested for conformance to the original specification. Any deviation in composition or performance from the original sample submitted may result in removal of the product from the qualified list.

**REFERENCE:**

DOTD Standard Specifications and Special Provisions, Section 1003  
DOTD Supplemental Specifications  
DOTD Maintenance Specifications

**No information contained in this list is to be used for promotional purposes.**

# Approved Materials List



Product Category : Asphaltic Materials			
MATERIAL : 1002M00020 Binder PG 58-28			
APS00000400 — Marathon Petroleum Company - Garyville, LA P. O. Box AC Garyville, LA 70051		Phone : 985-535-2018 Fax : 985-535-2017 Contact : Steve Suggs	Ext. # :
<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>	
Binder PG 58-28 Marathon - Garyville	5-21-1999		
APS00000510 — Valero Marketing and Supply - St. James, LA 10455 Hwy 18 St. James, LA 70086		Phone : 225-473-1390 Fax : 225-473-5735 Contact : Ralph Ramirez	Ext. # :
<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>	
Binder PG 58-28 Valero Marketing	5-19-2005		
MATERIAL : 1002M00030 Binder PG 64-22			
APS00000340 — Blacklidge Emulsions, Inc. - Gulfport, MS 11030 Reichold Road Gulfport, MS 39503		Phone : 228-863-3878 Fax : 228-864-0437 Contact : JR Wood	Ext. # :
Additional Info : Corporate Address: 12251 Bernard Parkway, Suite 200, Gulfport, MS 39503.			
<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>	
Binder PG 64-22 Blacklidge	2-6-2012		
APS00002480 — Calumet Laboratories/Lubricants - Shreveport, LA 3333 Midway Avenue Shreveport, LA 71109		Phone : 318-632-4002 Fax : 318-632-4113 Contact : Mitchell Perdue	Ext. # :
<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>	
Binder PG 64-22 Calumet	5-19-2005		
APS00000360 — Ergon Refining, Inc. - Vicksburg, MS P. O. Box 309 2611 Haining Road Vicksburg, MS 39180		Phone : 601-630-8343 Fax : 601-630-8347 Contact : Bill Hoxie	Ext. # :
<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>	
Binder PG 64-22 Ergon Vicksburg	5-19-2005		
APS00000385 — Hunt-Southland Refining Company - Heidelberg, MS 177 Haney Road Heidelberg, MS 39439		Phone : 601-426-8053 Fax : 601-426-0095 Contact : Elizabeth Barnes	Ext. # :
<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>	
Binder PG 64-22 Hunt-Southland Heidelbg	8-2-2010	Approved to ship matuerial under LA Approved Supplier Certification Program.	
APS00000390 — Lion Oil Company - El Dorado, AR 1000 McHenry Street El Dorado, AR 71730		Phone : 870-862-8111 Fax : 870-864-1445 Contact : Stan Owen	Ext. # : 344
<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>	
Binder PG 64-22 Lion Oil	5-19-2005		

**Product Category : Asphaltic Materials****MATERIAL : 1002M00030 Binder PG 64-22**

**APS00000400 — Marathon Petroleum Company - Garyville, LA**  
P. O. Box AC  
Garyville, LA 70051

**Phone :** 985-535-2018 **Ext. # :**  
**Fax :** 985-535-2017  
**Contact :** Steve Suggs

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Binder PG 64-22 Marathon - Garyville	5-19-2005	

**APS00010660 — Martin Asphalt Company - South Houston, TX**  
300 Christy Place  
South Houston, TX 77587

**Phone :** 713-941-4410 **Ext. # :**  
**Fax :** 713-947-4906  
**Contact :** Dolly Navarrete

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Binder PG 64-22 MartinAsphaltSHouston	1- 1-2012	

**APS00010880 — Martin Asphalt Company Neches - Beaumont, TX**  
One Gulf State Road  
Beaumont, TX 77701

**Phone :** 409-835-6172 **Ext. # :**  
**Fax :** 409-832-3607  
**Contact :** Joel Trevino

**Additional Info :** Contact person's mailing address: P.O. Box 6567; Beaumont, TX 77725

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Binder PG 64-22 MartinAsphaltNeches	8- 2-2010	

**APS00010870 — Martin Asphalt Company Stanolind - Beaumont, TX**  
10 Sulfur Plant Road  
Beaumont, TX 77701

**Phone :** 409-835-5529 **Ext. # :**  
**Fax :** 409-832-2612  
**Contact :** Donald Bearce

**Additional Info :** Contact person's mailing address: P.O. Box 6567; Beaumont, TX 77725

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Binder PG 64-22 MartinAsphaltStanolind	8- 2-2010	

**APS00000410 — Pelican Refining Co. - Lake Charles, LA**  
4646 Hwy. 3059 (Old Town Road)  
Lake Charles, LA 70615

**Phone :** 337-491-8800 **Ext. # :**  
**Fax :** 337-433-2209  
**Contact :** Scott Mounce

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Binder PG 64-22 Pelican Refining LC	5-19-2005	

**APS00011250 — Shell Oil Products, US - St. Rose, LA**  
11842 River Road  
St. Rose, LA 70087

**Phone :** 918-527-4745 **Ext. # :**  
**Fax :** 504-467-7355  
**Contact :** Stephen Fain  
(stephen.fain@shell.com)

**Additional Info :** Terminal Operations & Product Quality Address: P. O. Box 1701, Mandeville, LA 70470; (504) 468-1024 (phone)

Corporate Address: P. O. Box 4453, Houston, TX 77210-4453.

This producer supplier has been approved to ship PG 64-22 material under the L

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Binder PG 64-22 (PG67-22) Shell - StRose	2-25-2013	This producer supplier has been approved to ship PG 64-22 material under the Louisiana Approved Supplier Certification Program.

**APS00000510 — Valero Marketing and Supply - St. James, LA**  
10455 Hwy 18  
St. James, LA 70086

**Phone :** 225-473-1390 **Ext. # :**  
**Fax :** 225-473-5735  
**Contact :** Ralph Ramirez

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Binder PG 64-22 Valero Mktg - St. James	5-19-2005	

**Product Category : Asphaltic Materials****MATERIAL : 1002M00030 Binder PG 64-22**

**APS00011610 — Valero Marketing and Supply Co., - Houston, TX**  
9704 Clinton Drie  
Houston, TX 77029

**Phone :** 225-603-3602      **Ext. # :**  
**Fax :** 713-670-7879  
**Contact :** Sidney Pujol  
(sidney.pujol@valero.com)

**Additional Info :** Corporated Address: P. OI Box 696000, San Antonio, TX 78269-6000, 713-670-0021(p)

**Product****Approved On Remarks**

Binder PG 64-22 Valero Mktg - Houston

12- 4-2013

**MATERIAL : 1002M00040 Binder PG 70-22m**

**APS00010280 — Ergon Asphalt & Emulsions - Memphis, TN**  
P.O. Box 13387  
1989 Channel Avenue  
Memphis, TN 38113

**Phone :** 901-947-5800      **Ext. # :**  
**Fax :** 901-774-4562  
**Contact :** Alex Cross

**Product****Approved On Remarks**

Binder PG 70-22m Ergon - Memphis

1- 1-2012

**APS00000360 — Ergon Refining, Inc. - Vicksburg, MS**  
P. O. Box 309  
2611 Haining Road  
Vicksburg, MS 39180

**Phone :** 601-630-8343      **Ext. # :**  
**Fax :** 601-630-8347  
**Contact :** Bill Hoxie

**Product****Approved On Remarks**

Binder PG 70-22m Ergon - Vicksburg

2-22-2013

**APS00000385 — Hunt-Southland Refining Company - Heidelberg, MS**  
177 Haney Road  
Heidelberg, MS 39439

**Phone :** 601-426-8053      **Ext. # :**  
**Fax :** 601-426-0095  
**Contact :** Elizabeth Barnes

**Product****Approved On Remarks**

Binder PG 70-22m Hunt-Southland Heidelbg 9-27-2010 Approved to ship matuerial under LA Approved Supplier Certification Program.

**APS00000390 — Lion Oil Company - El Dorado, AR**  
1000 McHenry Street  
El Dorado, AR 71730

**Phone :** 870-862-8111      **Ext. # : 344**  
**Fax :** 870-864-1445  
**Contact :** Stan Owen

**Product****Approved On Remarks**

Binder PG 70-22m Lion Oil

11- 7-2005

**APS00000400 — Marathon Petroleum Company - Garyville, LA**  
P. O. Box AC  
Garyville, LA 70051

**Phone :** 985-535-2018      **Ext. # :**  
**Fax :** 985-535-2017  
**Contact :** Steve Suggs

**Product****Approved On Remarks**

Binder PG 70-22m Marathon - Garyville

11- 7-2005

**APS00010660 — Martin Asphalt Company - South Houston, TX**  
300 Christy Place  
South Houston, TX 77587

**Phone :** 713-941-4410      **Ext. # :**  
**Fax :** 713-947-4906  
**Contact :** Dolly Navarrete

**Product****Approved On Remarks**

Binder PG 70-22m MartinAsphaltSHouston

5-26-2010

**APS00000410 — Pelican Refining Co. - Lake Charles, LA**  
4646 Hwy. 3059 (Old Town Road)  
Lake Charles, LA 70615

**Phone :** 337-491-8800      **Ext. # :**  
**Fax :** 337-433-2209  
**Contact :** Scott Mounce

**Product****Approved On Remarks**

Binder PG 70-22m Pelican Refining LC

11- 7-2005

**Product Category : Asphaltic Materials****MATERIAL : 1002M00040 Binder PG 70-22m**

**APS00011250 — Shell Oil Products, US - St. Rose, LA**  
11842 River Road  
St. Rose, LA 70087

**Phone :** 918-527-4745      **Ext. # :**  
**Fax :** 504-467-7355  
**Contact :** Stephen Fain  
(stephen.fain@shell.com)

**Additional Info :** Terminal Operations & Product Quality Address: P. O. Box 1701, Mandeville, LA 70470; (504) 468-1024 (phone)

Corporate Address: P. O. Box 4453, Houston, TX 77210-4453.

This producer supplier has been approved to ship PG 64-22 material under the L

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
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Binder PG 70-22m Shell Oil St. Rose	6-12-2013	
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**APS00000510 — Valero Marketing and Supply - St. James, LA**  
10455 Hwy 18  
St. James, LA 70086

**Phone :** 225-473-1390      **Ext. # :**  
**Fax :** 225-473-5735  
**Contact :** Ralph Ramirez

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
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Binder PG 70-22m Valero Marketing	11- 7-2005	
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**MATERIAL : 1002M00050 Binder PG 76-22m**

**APS00000340 — Blacklidge Emulsions, Inc. - Gulfport, MS**  
11030 Reichold Road  
Gulfport, MS 39503

**Phone :** 228-863-3878      **Ext. # :**  
**Fax :** 228-864-0437  
**Contact :** JR Wood

**Additional Info :** Corporate Address: 12251 Bernard Parkway, Suite 200, Gulfport, MS 39503.

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
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Binder PG 76-22m Blacklide Emul-Gulfport	7-17-2013	
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**APS00011110 — Ergon Asphalt & Emulsion - Mulga, AL**  
7890 Birmingham Road  
Mulga, AL 35118

**Phone :** 205-436-3413      **Ext. # :**  
**Fax :** 205-436-3404  
**Contact :** Mike White

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
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Binder PG 76-22m ErgonAsph&EmulAL	1- 1-2012	
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**APS00010280 — Ergon Asphalt & Emulsions - Memphis, TN**  
P.O. Box 13387  
1989 Channel Avenue  
Memphis, TN 38113

**Phone :** 901-947-5800      **Ext. # :**  
**Fax :** 901-774-4562  
**Contact :** Alex Cross

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
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Binder PG 76-22m Ergon - Memphis	1- 1-2012	
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**APS00000360 — Ergon Refining, Inc. - Vicksburg, MS**  
P. O. Box 309  
2611 Haining Road  
Vicksburg, MS 39180

**Phone :** 601-630-8343      **Ext. # :**  
**Fax :** 601-630-8347  
**Contact :** Bill Hoxie

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
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Binder PG 76-22m Ergon - Vicksburg	3- 2-2004	
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**APS00000385 — Hunt-Southland Refining Company - Heidelberg, MS**  
177 Haney Road  
Heidelberg, MS 39439

**Phone :** 601-426-8053      **Ext. # :**  
**Fax :** 601-426-0095  
**Contact :** Elizabeth Barnes

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
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Binder PG 76-22m Hunt Southland Ref MS	7-17-2013	
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**Product Category : Asphaltic Materials****MATERIAL : 1002M00050 Binder PG 76-22m**

**APS00000390 — Lion Oil Company - El Dorado, AR**  
1000 McHenry Street  
El Dorado, AR 71730

**Phone :** 870-862-8111 **Ext. # :** 344  
**Fax :** 870-864-1445  
**Contact :** Stan Owen

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Binder PG 76-22m Lion Oil	3- 2-2004	

**APS00000400 — Marathon Petroleum Company - Garyville, LA**  
P. O. Box AC  
Garyville, LA 70051

**Phone :** 985-535-2018 **Ext. # :**  
**Fax :** 985-535-2017  
**Contact :** Steve Suggs

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Binder PG 76-22m Marathon - Garyville	3- 2-2004	

**APS00010660 — Martin Asphalt Company - South Houston, TX**  
300 Christy Place  
South Houston, TX 77587

**Phone :** 713-941-4410 **Ext. # :**  
**Fax :** 713-947-4906  
**Contact :** Dolly Navarrete

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Binder PG 76-22m MartinAsphaltSHouston	8- 2-2010	

**APS00000410 — Pelican Refining Co. - Lake Charles, LA**  
4646 Hwy. 3059 (Old Town Road)  
Lake Charles, LA 70615

**Phone :** 337-491-8800 **Ext. # :**  
**Fax :** 337-433-2209  
**Contact :** Scott Mounce

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Binder PG 76-22m Pelican Refining LC	3- 2-2004	

**APS00011270 — Shell Oil Products, US - Mobile, AL**  
835 Cochrane Causeway  
Mobile, AL 36610

**Phone :** 504-250-6358 **Ext. # :**  
**Fax :** 251-433-8622  
**Contact :** Donald Lawrence, Jr.  
(donald.lawrencejr@shell.com)

**Additional Info :** Corporate Address: P. O. Box 4453, Houston, TX 77210-4453; (251)432-7666

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Binder PG 76-22m Shell Oil Mobile	2-26-2013	

**APS00000510 — Valero Marketing and Supply - St. James, LA**  
10455 Hwy 18  
St. James, LA 70086

**Phone :** 225-473-1390 **Ext. # :**  
**Fax :** 225-473-5735  
**Contact :** Ralph Ramirez

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Binder PG 76-22m Valero Marketing	3- 2-2004	

**MATERIAL : 1002M00065 Binder PG 82-22rm**

**APS00000340 — Blacklidge Emulsions, Inc. - Gulfport, MS**  
11030 Reichold Road  
Gulfport, MS 39503

**Phone :** 228-863-3878 **Ext. # :**  
**Fax :** 228-864-0437  
**Contact :** JR Wood

**Additional Info :** Corporate Address: 12251 Bernard Parkway, Suite 200, Gulfport, MS 39503.

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Binder PG 82-22RM Blacklidge	2- 6-2012	Material approved for the Louisiana Approved Supplier Certification Program.

**APS00000410 — Pelican Refining Co. - Lake Charles, LA**  
4646 Hwy. 3059 (Old Town Road)  
Lake Charles, LA 70615

**Phone :** 337-491-8800 **Ext. # :**  
**Fax :** 337-433-2209  
**Contact :** Scott Mounce

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Binder PG 82-22rm Pelican Refining LC	1- 1-2012	



**Product Category : Asphaltic Materials****MATERIAL : 1002M00070 PAC-15 for Asphaltic Surface Treatment**

**APS00000340 — Blacklidge Emulsions, Inc. - Gulfport, MS** Phone : 228-863-3878 Ext. # :  
11030 Reichold Road Fax : 228-864-0437  
Gulfport, MS 39503 Contact : JR Wood  
**Additional Info :** Corporate Address: 12251 Bernard Parkway, Suite 200, Gulfport, MS 39503.

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
PAC-15 BlacklidgeGulfport	1-31-2005	

**APS00010050 — Pelican Refining Co. - Channelview TX** Phone : 281-862-9275 Ext. # :  
17310 Market Street Fax : 281-862-0508  
Channelview, TX 77530 Contact : Reggie Roberts

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
PAC-15 PelicanRefiningChannelview	1- 1-2012	

**APS00000410 — Pelican Refining Co. - Lake Charles, LA** Phone : 337-491-8800 Ext. # :  
4646 Hwy. 3059 (Old Town Road) Fax : 337-433-2209  
Lake Charles, LA 70615 Contact : Scott Mounce

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
PAC-15 Pelican Refining Lake Charles	11- 7-2005	

**MATERIAL : 1002M00080 Emulsion SS-1**

**APS00000330 — Asphalt Products Unlimited, Inc. - Port Allen, LA** Phone : 225-346-0836 Ext. # :  
4675 I-10 Frontage Road Fax : 225-346-0838  
Port Allen, LA 70767 Contact : R. Steele Yeargain

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsified Asphalt SS-1 Asphalt Products	4-16-2008	

**APS00000340 — Blacklidge Emulsions, Inc. - Gulfport, MS** Phone : 228-863-3878 Ext. # :  
11030 Reichold Road Fax : 228-864-0437  
Gulfport, MS 39503 Contact : JR Wood  
**Additional Info :** Corporate Address: 12251 Bernard Parkway, Suite 200, Gulfport, MS 39503.

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsified Asphalt SS-1 Blacklidge	1-31-2005	

**APS00000350 — Ergon Asphalt & Emulsions - Mt. Pleasant, TX** Phone : 903-572-9839 Ext. # :  
209 Robert Nance Road Fax : 903-573-1408  
Mt. Pleasant, TX 75455 Contact : Jackie Gillean  
**Additional Info :** Company Address: Ergon, Inc., P. O. Box 1639, Jackson, MS 39215

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
EmulsifiedAsphalt SS-1 ErgonMt. Pleasant	11-16-1992	

**APS00010850 — Martin Asphalt Company - Port Neches, TX** Phone : 713-943-5215 Ext. # :  
100 1/2 East Port Neches Avenue Fax : 713-947-4906  
Port Neches, TX 77651 Contact : Dolly Navarrete  
**Additional Info :** Corporate Address: Three Riverway, Suite 400, Houston, TX 77056; 409-722-2411(p) or 713-941-4410 (p);  
(409)722-2809 (f) or 713-947-4906 (f)

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsion SS-1 MartinAsphaltPtNeches	1- 1-2012	

**MATERIAL : 1002M00090 Emulsion SS-1h**

**Product Category : Asphaltic Materials****MATERIAL : 1002M00090 Emulsion SS-1h**

**APS00000330 — Asphalt Products Unlimited, Inc. - Port Allen, LA**  
4675 I-10 Frontage Road  
Port Allen, LA 70767

**Phone :** 225-346-0836 **Ext. # :**  
**Fax :** 225-346-0838  
**Contact :** R. Steele Yeargain

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
EmulsifiedAsphalt SS-1h Asphalt Products	7- 1-2008	

**APS00000340 — Blacklidge Emulsions, Inc. - Gulfport, MS**  
11030 Reichold Road  
Gulfport, MS 39503

**Phone :** 228-863-3878 **Ext. # :**  
**Fax :** 228-864-0437  
**Contact :** JR Wood

**Additional Info :** Corporate Address: 12251 Bernard Parkway, Suite 200, Gulfport, MS 39503.

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsified Asphalt SS-1H Blacklidge	2-25-2010	

**APS00000350 — Ergon Asphalt & Emulsions - Mt. Pleasant, TX**  
209 Robert Nance Road  
Mt. Pleasant, TX 75455

**Phone :** 903-572-9839 **Ext. # :**  
**Fax :** 903-573-1408  
**Contact :** Jackie Gillean

**Additional Info :** Company Address: Ergon, Inc., P. O. Box 1639, Jackson, MS 39215

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsion SS-1h Ergon A&E Mt. Pleasant	3-26-2014	

**APS00010850 — Martin Asphalt Company - Port Neches, TX**  
100 1/2 East Port Neches Avenue  
Port Neches, TX 77651

**Phone :** 713-943-5215 **Ext. # :**  
**Fax :** 713-947-4906  
**Contact :** Dolly Navarrete

**Additional Info :** Corporate Address: Three Riverway, Suite 400, Houston, TX 77056; 409-722-2411(p) or 713-941-4410 (p); (409)722-2809 (f) or 713-947-4906 (f)

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsion SS-1h Martin Asphalt Co	4-12-2011	

**APS00010660 — Martin Asphalt Company - South Houston, TX**  
300 Christy Place  
South Houston, TX 77587

**Phone :** 713-941-4410 **Ext. # :**  
**Fax :** 713-947-4906  
**Contact :** Dolly Navarrete

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsion SS-1h MartinAsphaltSHouston	1- 1-2012	

**MATERIAL : 1002M00100 Emulsion CRS-2**

**APS00000330 — Asphalt Products Unlimited, Inc. - Port Allen, LA**  
4675 I-10 Frontage Road  
Port Allen, LA 70767

**Phone :** 225-346-0836 **Ext. # :**  
**Fax :** 225-346-0838  
**Contact :** R. Steele Yeargain

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsion CRS-2 Asphalt Products	1-31-2005	

**APS00000340 — Blacklidge Emulsions, Inc. - Gulfport, MS**  
11030 Reichold Road  
Gulfport, MS 39503

**Phone :** 228-863-3878 **Ext. # :**  
**Fax :** 228-864-0437  
**Contact :** JR Wood

**Additional Info :** Corporate Address: 12251 Bernard Parkway, Suite 200, Gulfport, MS 39503.

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsion CRS-2 BlacklidgeGulfport	2- 6-2012	

**Product Category : Asphaltic Materials****MATERIAL : 1002M00100 Emulsion CRS-2**

**APS00000350 — Ergon Asphalt & Emulsions - Mt. Pleasant, TX**  
209 Robert Nance Road  
Mt. Pleasant, TX 75455

**Phone :** 903-572-9839 **Ext. # :**  
**Fax :** 903-573-1408  
**Contact :** Jackie Gillean

**Additional Info :** Company Address: Ergon, Inc., P. O. Box 1639, Jackson, MS 39215

**Product****Approved On Remarks**

Emulsified Asphalt CRS-2 ErgonMtPleasant 4-16-2008

**APS00000360 — Ergon Refining, Inc. - Vicksburg, MS**  
P. O. Box 309  
2611 Haining Road  
Vicksburg, MS 39180

**Phone :** 601-630-8343 **Ext. # :**  
**Fax :** 601-630-8347  
**Contact :** Bill Hoxie

**Product****Approved On Remarks**

Emulsified Asphalt CRS-2 Ergon Vicksburg 4-16-2008

**APS00010850 — Martin Asphalt Company - Port Neches, TX**  
100 1/2 East Port Neches Avenue  
Port Neches, TX 77651

**Phone :** 713-943-5215 **Ext. # :**  
**Fax :** 713-947-4906  
**Contact :** Dolly Navarrete

**Additional Info :** Corporate Address: Three Riverway, Suite 400, Houston, TX 77056; 409-722-2411(p) or 713-941-4410 (p); (409)722-2809 (f) or 713-947-4906 (f)

**Product****Approved On Remarks**

Emulsion CRS-2 MartinAsphaltPtNeches 1- 1-2012

**MATERIAL : 1002M00120 Emulsion CSS-1**

**APS00000350 — Ergon Asphalt & Emulsions - Mt. Pleasant, TX**  
209 Robert Nance Road  
Mt. Pleasant, TX 75455

**Phone :** 903-572-9839 **Ext. # :**  
**Fax :** 903-573-1408  
**Contact :** Jackie Gillean

**Additional Info :** Company Address: Ergon, Inc., P. O. Box 1639, Jackson, MS 39215

**Product****Approved On Remarks**

Emulsion CSS-1 Ergon - Mt. Pleasant 3- 3-2014

**APS00000360 — Ergon Refining, Inc. - Vicksburg, MS**  
P. O. Box 309  
2611 Haining Road  
Vicksburg, MS 39180

**Phone :** 601-630-8343 **Ext. # :**  
**Fax :** 601-630-8347  
**Contact :** Bill Hoxie

**Product****Approved On Remarks**

Emulsion CSS-1 Ergon - Vicksburg 4-16-2008

**MATERIAL : 1002M00130 Emulsion CSS-1h**

**APS00000350 — Ergon Asphalt & Emulsions - Mt. Pleasant, TX**  
209 Robert Nance Road  
Mt. Pleasant, TX 75455

**Phone :** 903-572-9839 **Ext. # :**  
**Fax :** 903-573-1408  
**Contact :** Jackie Gillean

**Additional Info :** Company Address: Ergon, Inc., P. O. Box 1639, Jackson, MS 39215

**Product****Approved On Remarks**

Emulsion CSS-1h Ergon A&E Mt. Pleasant 3-26-2014

**Product Category : Asphaltic Materials****MATERIAL : 1002M00130 Emulsion CSS-1h****APS00010850 — Martin Asphalt Company - Port Neches, TX**100 1/2 East Port Neches Avenue  
Port Neches, TX 77651**Phone :** 713-943-5215**Ext. # :****Fax :** 713-947-4906**Contact :** Dolly Navarrete**Additional Info :** Corporate Address: Three Riverway, Suite 400, Houston, TX 77056; 409-722-2411(p) or 713-941-4410 (p);  
(409)722-2809 (f) or 713-947-4906 (f)**Product****Approved On Remarks**

Emulsion CSS-1h MartinAsphaltPtNeches

1- 1-2012

**MATERIAL : 1002M00135 Emulsion CSS-1HP****APS00000340 — Blacklidge Emulsions, Inc. - Gulfport, MS**11030 Reichold Road  
Gulfport, MS 39503**Phone :** 228-863-3878**Ext. # :****Fax :** 228-864-0437**Contact :** JR Wood**Additional Info :** Corporate Address: 12251 Bernard Parkway, Suite 200, Gulfport, MS 39503.**Product****Approved On Remarks**

Emulsion CSS-1HP - Blacklidge - Gulfport

4-24-2014

**APS00011500 — Blacklidge Emulsions, Inc. - Mobile, AL**835 Cochrane Causeway  
Mobile, AL 36610**Phone :** 228-760-0148**Ext. # :****Fax :** 228-864-0437**Contact :** Eric Tulk (etulk@be-inc.com)**Additional Info :** Corporate Address: 12251 Bernard Parkway, Suite 200, Gulfport, MS 39503, 251-432-7666 (p)**Product****Approved On Remarks**

Emulsion CSS-1HP Blacklidge - Mobile

6- 5-2014

**APS00010280 — Ergon Asphalt & Emulsions - Memphis, TN**P.O. Box 13387  
1989 Channel Avenue  
Memphis, TN 38113**Phone :** 901-947-5800**Ext. # :****Fax :** 901-774-4562**Contact :** Alex Cross**Product****Approved On Remarks**

Emulsion CSS-1HP Ergon - Memphis

7- 1-2014

**APS00000360 — Ergon Refining, Inc. - Vicksburg, MS**P. O. Box 309  
2611 Haining Road  
Vicksburg, MS 39180**Phone :** 601-630-8343**Ext. # :****Fax :** 601-630-8347**Contact :** Bill Hoxie**Product****Approved On Remarks**

Emulsion CSS-1HP Ergon - Vicksburg

2-23-2010

**MATERIAL : 1002M00140 Emulsion CRS-2P****APS00000330 — Asphalt Products Unlimited, Inc. - Port Allen, LA**4675 I-10 Frontage Road  
Port Allen, LA 70767**Phone :** 225-346-0836**Ext. # :****Fax :** 225-346-0838**Contact :** R. Steele Yeargain**Product****Approved On Remarks**

EmulsPolyAsph CRS-2P Asphalt Products

7- 1-2008

**Product Category : Asphaltic Materials****MATERIAL : 1002M00140 Emulsion CRS-2P**

**APS00000340 — Blacklidge Emulsions, Inc. - Gulfport, MS**  
11030 Reichold Road  
Gulfport, MS 39503

**Phone :** 228-863-3878      **Ext. # :**  
**Fax :** 228-864-0437  
**Contact :** JR Wood

**Additional Info :** Corporate Address: 12251 Bernard Parkway, Suite 200, Gulfport, MS 39503.

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsion CRS-2P Blacklidge - Gulfport	4-19-2013	

**APS00011500 — Blacklidge Emulsions, Inc. - Mobile, AL**  
835 Cochrane Causeway  
Mobile, AL 36610

**Phone :** 228-760-0148      **Ext. # :**  
**Fax :** 228-864-0437  
**Contact :** Eric Tulk (etulk@be-inc.com)

**Additional Info :** Corporate Address: 12251 Bernard Parkway, Suite 200, Gulfport, MS 39503, 251-432-7666 (p)

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsion CRS-2P Blacklidge - Mobile	8-12-2013	

**APS00000350 — Ergon Asphalt & Emulsions - Mt. Pleasant, TX**  
209 Robert Nance Road  
Mt. Pleasant, TX 75455

**Phone :** 903-572-9839      **Ext. # :**  
**Fax :** 903-573-1408  
**Contact :** Jackie Gillean

**Additional Info :** Company Address: Ergon, Inc., P. O. Box 1639, Jackson, MS 39215

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsion CRS-2P Ergon - Mt. Pleasant	9-27-2005	

**APS00000360 — Ergon Refining, Inc. - Vicksburg, MS**  
P. O. Box 309  
2611 Haining Road  
Vicksburg, MS 39180

**Phone :** 601-630-8343      **Ext. # :**  
**Fax :** 601-630-8347  
**Contact :** Bill Hoxie

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsion CRS-2P Ergon - Vicksburg	4-16-2008	

**APS00010850 — Martin Asphalt Company - Port Neches, TX**  
100 1/2 East Port Neches Avenue  
Port Neches, TX 77651

**Phone :** 713-943-5215      **Ext. # :**  
**Fax :** 713-947-4906  
**Contact :** Dolly Navarrete

**Additional Info :** Corporate Address: Three Riverway, Suite 400, Houston, TX 77056; 409-722-2411(p) or 713-941-4410 (p); (409)722-2809 (f) or 713-947-4906 (f)

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsion CRS-2P MartinAsphaltPtNeches	1- 1-2012	

**APS00010660 — Martin Asphalt Company - South Houston, TX**  
300 Christy Place  
South Houston, TX 77587

**Phone :** 713-941-4410      **Ext. # :**  
**Fax :** 713-947-4906  
**Contact :** Dolly Navarrete

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsion CRS-2PMartinAsphaltSHouston	5-26-2010	

**MATERIAL : 1002M00145 Emulsion CQS-1H**

**APS00000330 — Asphalt Products Unlimited, Inc. - Port Allen, LA**  
4675 I-10 Frontage Road  
Port Allen, LA 70767

**Phone :** 225-346-0836      **Ext. # :**  
**Fax :** 225-346-0838  
**Contact :** R. Steele Yeargain

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsified Asphalt CQS-1H Asphalt Prod	7- 1-2008	

**Product Category : Asphaltic Materials****MATERIAL : 1002M00145 Emulsion CQS-1H**

APS00000360 — Ergon Refining, Inc. - Vicksburg, MS  
P. O. Box 309  
2611 Haining Road  
Vicksburg, MS 39180

Phone : 601-630-8343 Ext. # :  
Fax : 601-630-8347  
Contact : Bill Hoxie

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsified Asphalt CQS-1H ErgonVicksburg	7- 1-2008	

**MATERIAL : 1002M00150 Emulsion EPR-1**

APS00000340 — Blacklidge Emulsions, Inc. - Gulfport, MS  
11030 Reichold Road  
Gulfport, MS 39503

Phone : 228-863-3878 Ext. # :  
Fax : 228-864-0437  
Contact : JR Wood

**Additional Info :** Corporate Address: 12251 Bernard Parkway, Suite 200, Gulfport, MS 39503.

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsion EPR-1 Blacklidge	11-16-1992	

APS00000420 — PennzSuppress Corporation - Austin, TX  
360 Nueces #3609  
Austin, TX 78701

Phone : 512-267-3553 Ext. # :  
Fax : 512-267-4627  
Contact : Linda Summers

**Additional Info :** Company changed their name from Pennzoil Products Company to PennzSuppress Corporation, updated contact and address information. Cassandra 4/2/2013.

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsion - EPR - PennxSuppress	7-12-2012	

**MATERIAL : 1002M00160 Emulsion - Anionic Emulsified Polymer**

APS00000330 — Asphalt Products Unlimited, Inc. - Port Allen, LA  
4675 I-10 Frontage Road  
Port Allen, LA 70767

Phone : 225-346-0836 Ext. # :  
Fax : 225-346-0838  
Contact : R. Steele Yeargain

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
AEP Asphalt Emulsion Prime Asphalt Prod	7- 1-2008	

APS00010660 — Martin Asphalt Company - South Houston, TX  
300 Christy Place  
South Houston, TX 77587

Phone : 713-941-4410 Ext. # :  
Fax : 713-947-4906  
Contact : Dolly Navarrete

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
AEP AsphaltEmulPrime MartinAsphaltSHoust	10- 1-2011	

**MATERIAL : 1002M00175 Emulsion Polymer Modified**

APS00000330 — Asphalt Products Unlimited, Inc. - Port Allen, LA  
4675 I-10 Frontage Road  
Port Allen, LA 70767

Phone : 225-346-0836 Ext. # :  
Fax : 225-346-0838  
Contact : R. Steele Yeargain

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Polymer Modified Emulsion Asphalt Prod	1- 1-2012	

APS00000350 — Ergon Asphalt & Emulsions - Mt. Pleasant, TX  
209 Robert Nance Road  
Mt. Pleasant, TX 75455

Phone : 903-572-9839 Ext. # :  
Fax : 903-573-1408  
Contact : Jackie Gillean

**Additional Info :** Company Address: Ergon, Inc., P. O. Box 1639, Jackson, MS 39215

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
EBL (PME-PolymEmulTack) ErgonMtPleasant	3- 3-2014	

**Product Category : Asphaltic Materials****MATERIAL : 1002M00175 Emulsion Polymer Modified**

**APS00000360 — Ergon Refining, Inc. - Vicksburg, MS**  
P. O. Box 309  
2611 Haining Road  
Vicksburg, MS 39180

**Phone :** 601-630-8343 **Ext. # :**  
**Fax :** 601-630-8347  
**Contact :** Bill Hoxie

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsion Polymer Modified ErgonVicksburg	1- 1-2012	

**APS00010850 — Martin Asphalt Company - Port Neches, TX**  
100 1/2 East Port Neches Avenue  
Port Neches, TX 77651

**Phone :** 713-943-5215 **Ext. # :**  
**Fax :** 713-947-4906  
**Contact :** Dolly Navarrete

**Additional Info :** Corporate Address: Three Riverway, Suite 400, Houston, TX 77056; 409-722-2411(p) or 713-941-4410 (p); (409)722-2809 (f) or 713-947-4906 (f)

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
EmulsionPolymerModified MartinAsphPtNech	1- 1-2012	

**APS00010660 — Martin Asphalt Company - South Houston, TX**  
300 Christy Place  
South Houston, TX 77587

**Phone :** 713-941-4410 **Ext. # :**  
**Fax :** 713-947-4906  
**Contact :** Dolly Navarrete

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
EmulsionPolymerModified MartinAsphSHoust	1- 1-2012	

**MATERIAL : 1002M00180 Emulsion SS-1L**

**APS00000330 — Asphalt Products Unlimited, Inc. - Port Allen, LA**  
4675 I-10 Frontage Road  
Port Allen, LA 70767

**Phone :** 225-346-0836 **Ext. # :**  
**Fax :** 225-346-0838  
**Contact :** R. Steele Yeargain

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsified Asphalt SS-1L Asphalt Prod	7- 1-2008	

**MATERIAL : 1002M00185 Emulsion NTSS-1HM**

**APS00000330 — Asphalt Products Unlimited, Inc. - Port Allen, LA**  
4675 I-10 Frontage Road  
Port Allen, LA 70767

**Phone :** 225-346-0836 **Ext. # :**  
**Fax :** 225-346-0838  
**Contact :** R. Steele Yeargain

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
NTSS-1HM Anionic Trackless Tack AsphProd	2-25-2010	

**APS00000340 — Blacklidge Emulsions, Inc. - Gulfport, MS**  
11030 Reichold Road  
Gulfport, MS 39503

**Phone :** 228-863-3878 **Ext. # :**  
**Fax :** 228-864-0437  
**Contact :** JR Wood

**Additional Info :** Corporate Address: 12251 Bernard Parkway, Suite 200, Gulfport, MS 39503.

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
NTSS-1HM Trackless Tack Blacklidge	2-25-2010	

**APS00011030 — Calumet Lubricants Co. - Princeton, LA**  
10234 Highway 157  
Princeton, LA 71067

**Phone :** 318-949-2421 **Ext. # :**  
**Fax :** 318-949-2543  
**Contact :** Rhett Webber

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Emulsion NTSS-1HM Calumet-Princeton	1- 1-2012	

**MATERIAL : 1002M00190 Cutback MC-30**

**Product Category : Asphaltic Materials****MATERIAL : 1002M00190 Cutback MC-30**

**APS00000330 — Asphalt Products Unlimited, Inc. - Port Allen, LA**  
4675 I-10 Frontage Road  
Port Allen, LA 70767

**Phone :** 225-346-0836 **Ext. # :**  
**Fax :** 225-346-0838  
**Contact :** R. Steele Yeargain

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Cutback Asphalt MC-30 Asphalt Products	7- 1-2008	

**APS000010280 — Ergon Asphalt & Emulsions - Memphis, TN**  
P.O. Box 13387  
1989 Channel Avenue  
Memphis, TN 38113

**Phone :** 901-947-5800 **Ext. # :**  
**Fax :** 901-774-4562  
**Contact :** Alex Cross

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Cutback Asphalt MC-30 Ergon - Memphis	2-25-2010	

**APS00000390 — Lion Oil Company - El Dorado, AR**  
1000 McHenry Street  
El Dorado, AR 71730

**Phone :** 870-862-8111 **Ext. # :** 344  
**Fax :** 870-864-1445  
**Contact :** Stan Owen

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Cutback Asphalt MC-30 Lion Oil Co.	6- 6-1989	

**APS00000510 — Valero Marketing and Supply - St. James, LA**  
10455 Hwy 18  
St. James, LA 70086

**Phone :** 225-473-1390 **Ext. # :**  
**Fax :** 225-473-5735  
**Contact :** Ralph Ramirez

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Cutback Asphalt MC-30 Valero Marketing	5-28-1999	

**MATERIAL : 1002M00200 Cutback MC-70**

**APS00000330 — Asphalt Products Unlimited, Inc. - Port Allen, LA**  
4675 I-10 Frontage Road  
Port Allen, LA 70767

**Phone :** 225-346-0836 **Ext. # :**  
**Fax :** 225-346-0838  
**Contact :** R. Steele Yeargain

<u>Product</u>	<u>Approved On</u>	<u>Remarks</u>
Cutback Asphalt MC-70 Asphalt Products	7- 1-2008	